XAV-602BT

SERVICE MANUAL

Ver. 1.0 2013.09

US Model
Canadian Model
AEP Model
UK Model
E Model



The service manual of the mechanism deck, used in this model, has been issued in a separate volume. Please refer to the service manual of the MG-614 series for the mechanism deck information.

Model Name Using Similar Mechanism	XAV-601BT
Mechanism Type	MG-614D-189
Optical Pick-up Name	TOP1300SE C11

SPECIFICATIONS

FOR UNITED STATES CUSTOMERS. NOT APPLICABLE IN CANADA, INCLUDINGIN THE PROVINCE OF QUEBEC.

POUR LES CONSOMMATEURS AUX ÉTATS-UNIS. NON APPLICABLE AU CANADA, Y COMPRIS LA PROVINCE DE QUÉBEC.

AUDIO POWER SPECIFICATIONS (US and Canadian models only)

CEA2006 Standard
Power Output: 17 Watts RMS × 4 at 4 Ohms < 1% THD+N
SN Ratio: 80 dBA
(reference: 1 Watt into 4 Ohms)

Monitor section

Display type: Wide LCD color monitor
Dimensions: 6.1 in
System: TFT active matrix
Number of pixels:
1,152,000 pixels (800 × 3 (RGB) × 480)
Color system:
PAL/NTSC/SECAM/PAL-M/PAL-N automatic select

Tuner section (US and Canadian models)

FM

Tuning range: 87.5 – 107.9 MHz
Antenna (aerial) terminal:
External antenna (aerial) connector
Intermediate frequency: 25 kHz
Usable sensitivity: 9 dBf
Selectivity: 75 dB at 400 kHz
Signal-to-noise ratio: 80 dB (mono)
Separation at 1 kHz: 50 dB
Frequency response: 20 – 15,000 Hz

AM

Tuning range: 530 – 1,710 kHz
Antenna (aerial) terminal:
External antenna (aerial) connector
Intermediate frequency:
9,115 kHz or 9,125 kHz/5 kHz
Sensitivity: 26 µV

Tuner section (AEP and UK models)

FM

Tuning range: 87.5 – 108.0 MHz
Antenna (aerial) terminal:
External antenna (aerial) connector
Intermediate frequency: 25 kHz
Usable sensitivity: 9 dBf
Selectivity: 75 dB at 400 kHz
Signal-to-noise ratio (stereo): 80 dB (mono)
Separation at 1 kHz: 50 dB
Frequency response: 20 – 15,000 Hz

MW/LW

Tuning range:
MW: 531 – 1,602 kHz
LW: 153 – 279 kHz
Antenna (aerial) terminal:
External antenna (aerial) connector
Intermediate frequency:
9,124.5kHz or 9,115.5kHz/4.5kHz
Sensitivity: MW: 26 µV, LW: 46 µV

Tuner section (Russian model)

FM

Tuning range:
FM1/FM2: 87.5 - 108.0 MHz (at 50 kHz step)
FM3: 65 - 74 MHz (at 30 kHz step)
Antenna (aerial) terminal:
External antenna (aerial) connector
Intermediate frequency: 25 kHz
Usable sensitivity: 9 dBf
Selectivity: 75 dB at 400 kHz
Signal-to-noise ratio (stereo): 80 dB (mono)
Separation at 1 kHz: 50 dB
Frequency response: 20 - 15,000 Hz

MW/LW

Tuning range:
MW: 531 – 1,602 kHz
LW: 153 – 279 kHz
Antenna (aerial) terminal:
External antenna (aerial) connector
Intermediate frequency:
9,124.5 kHz or 9,115.5 kHz/4.5 kHz
Sensitivity: MW: 26 µV, LW: 46 µV

Tuner section (E (NTSC) model)

FM

Tuning range:
87.5 – 108.0 MHz (at 100 kHz step)
87.5 – 107.9 MHz (at 200 kHz step)
FM tuning step: 100 kHz/200 kHz switchable
Antenna (aerial) terminal:
External antenna (aerial) connector
Intermediate frequency: 25 kHz
Usable sensitivity: 9 dBf
Selectivity: 75 dB at 400 kHz
Signal-to-noise ratio (stereo): 80 dB (mono)
Separation: 50 dB at 1 kHz
Frequency response: 20 – 15,000 Hz

AM

Tuning range: 530 – 1,710 kHz
Antenna (aerial) terminal:
External antenna (aerial) connector
Intermediate frequency:
9,124.5 kHz or 9,115.5 kHz/4.5 kHz
Sensitivity: 26 µV

Tuner section (E (PAL) and Indian models)

FM

Tuning range: 87.5 – 108.0 MHz
Antenna (aerial) terminal:
External antenna (aerial) connector
Intermediate frequency: 25 kHz
Usable sensitivity: 9 dBf
Selectivity: 75 dB at 400 kHz
Signal-to-noise ratio (stereo): 80 dB (mono)
Separation at 1 kHz: 50 dB
Frequency response: 20 – 15,000 Hz

AM

Tuning range: 531 – 1,602 kHz
Antenna (aerial) terminal:
External antenna (aerial) connector
Intermediate frequency:
9,124.5 kHz or 9,115.5 kHz/4.5 kHz
Sensitivity: 26 µV

DVD/CD Player section

Signal-to-noise ratio: 120 dB
Frequency response: 10 – 20,000 Hz
Wow and flutter: Below measurable limit
Harmonic distortion: 0.01%
Region code: Labeled on the bottom of the unit

USB Player section

Interface: USB (High-speed)
Maximum current: 1 A
1.5 A (HIGH CHARGE mode)

Wireless Communication

Communication System:
Bluetooth Standard version 2.1 + EDR
Output:
Bluetooth Standard Power Class 2 (Max. +4 dBm)
Maximum communication range:
Line of sight approx. 10 m (33 ft)*1
Frequency band:
2.4 GHz band (2.4000 – 2.4835 GHz)
Modulation method: FHSS
Compatible Bluetooth Profiles*2:
A2DP (Advanced Audio Distribution Profile) 1.2
AVRCP (Audio Video Remote Control Profile) 1.3
HFP (Handsfree Profile) 1.5
PBAP (Phone Book Access Profile)
OPP (Object Push Profile)
SPP (Serial Port Profile)
Maximum number of storable phonebook contacts: 1,000

*1 The actual range will vary depending on factors such as obstacles between devices, magnetic fields around a microwave oven, static electricity, reception sensitivity, antenna's performance, operating system, software application, etc.
*2 Bluetooth standard profiles indicate the purpose of Bluetooth communication between devices.

Power amplifier section

Outputs: Speaker outputs
Speaker impedance: 4 – 8 ohms
Maximum power output: 52 W × 4 (at 4 ohms)

General

Outputs:
Video output terminal (rear)
Audio output terminals (front/rear)
Audio output terminal (Z×Z)
Subwoofer output terminal
Power antenna (aerial)/Power amplifier control terminal (REM OUT) (US, Canadian, E (NTSC), E (PAL) and Indian models only)
Power antenna (aerial) relay control terminal (AEP, Russian and UK models only)
Power amplifier control terminal (AEP, Russian and UK models only)
Inputs:
Illumination control terminal
SiriusXM input terminal
(US and Canadian models only)
Remote controller input terminal
Antenna (aerial) input terminal
Parking break control terminal
Microphone input terminal
Reverse input terminal
AUX audio input terminals
AUX video input terminals
USB port
Power requirements: 12 V DC car battery (negative ground (earth))
Dimensions: Approx. 178 mm × 100 mm × 173 mm
(7 1/8 × 4 × 6 7/8 in) (w/h/d)
Mounting dimensions:
Approx. 182 mm × 111 mm × 160 mm
(7 1/4 × 4 3/8 × 6 3/8 in) (w/h/d)
Mass: Approx. 2.0 kg (4 lb 7 oz)
Package contents:
Parts for installation and connections (1 set)
Microphone (1)
Remote Commander (1): RM-X271
Panel Case (1)

Design and specifications are subject to change without notice.

Region code

The region system is used to protect software copyrights.
The region code is located on the bottom of the unit, and only DVDs labeled with an identical region code can be played on this unit.

DVDs labeled [ALL] can also be played.

If you try to play any other DVD, the message [Disc playback prohibited by region code.] will appear on the monitor screen. Depending on the DVD, no region code may be labeled even though playing the DVD is prohibited by area restrictions.

AV CENTER

9-893-836-01
2013I33-1

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Published by Sony Techno Create Corporation

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CAUTION
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

NOTES ON CHIP COMPONENT REPLACEMENT

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

FLEXIBLE CIRCUIT BOARD REPAIRING

- Keep the temperature of soldering iron around 270 °C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

SAFETY-RELATED COMPONENT WARNING!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

TABLE OF CONTENTS

Accessories are given in the last of the electrical parts list.

SECTION 1
SERVICING NOTES

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

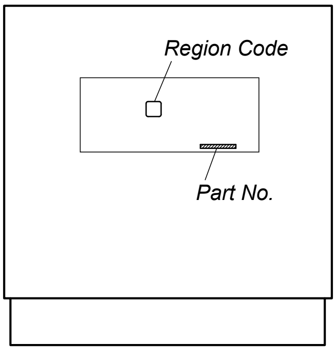
The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

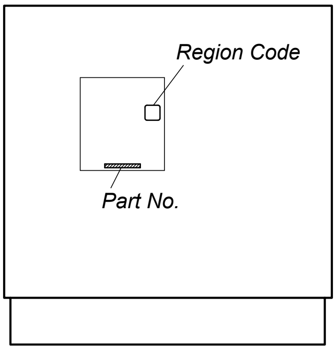
The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pickup block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

MODEL IDENTIFICATION

– Bottom View –
(Except E (NTSC) and Indian models)



– Bottom View –
(E (NTSC) and Indian models)



Label indication			Destination
Signal format system	Region code	Part No.	
NTSC	1	4-476-945-0□	US and Canadian models
PAL	2	4-476-946-0□	AEP and UK models
PAL	3	4-476-947-0□	E (PAL) model
PAL	5	4-476-948-0□	Indian model
PAL	5	4-476-949-0□	Russian model
NTSC	4	4-476-950-0□	E (NTSC) model

UNLEADED SOLDER

Boards requiring use of unleaded solder are printed with the lead-free mark (LF) indicating the solder contains no lead.
(**Caution:** Some printed circuit boards may not come printed with the lead free mark due to their particular size)

: LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40 °C higher than ordinary solder.
  Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
  Soldering irons using a temperature regulator should be set to about 350 °C.
  Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- Strong viscosity
  Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
  It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

IMPORTANT NOTE FOR REPAIRING

XAV-602BT contain individual information that the customer registered because it installs the Bluetooth function.
When repairing, the data that the customer registered might disappear. Have the approval of the customer beforehand.
If any of the following repair is performed, that data disappears.

- Complete DISPLAY board exchange
- Initialize

Note: Exchanged old complete DISPLAY board is destroyed with the hammer, and throw out it.

NOTE THE CN101 AND CN901 ON THE MAIN BOARD REPLACING

CN101 and CN901 on the MAIN board cannot exchange with single. When these parts are damaged, exchange the complete mounted board.

NOTE FOR REPLACEMENT OF THE DISPLAY BOARD

When repairing, the complete DISPLAY board and should be replaced since any parts in the DISPLAY board cannot be repaired.

NOTE THE CN2300 ON THE M-SUB6 BOARD REPLACING

CN2300 on the M-SUB6 board cannot exchange with single. When this part is damaged, exchange the complete mounted board.

NOTE THE MAIN BOARD OR SYSTEM CONTROLLER (IC502) REPLACING

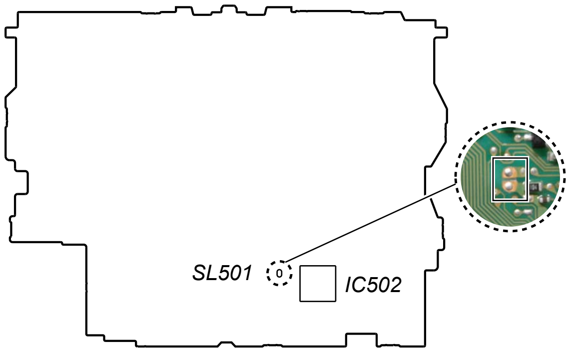
When the complete MAIN board or system controller (IC502) is replaced, the destination setting is necessary.

Note: Remote commander is necessary.

1. Preparing the Destination Setting

Be sure to solder the SL501 on the MAIN board before doing the destination setting.

– MAIN Board (Component Side) –



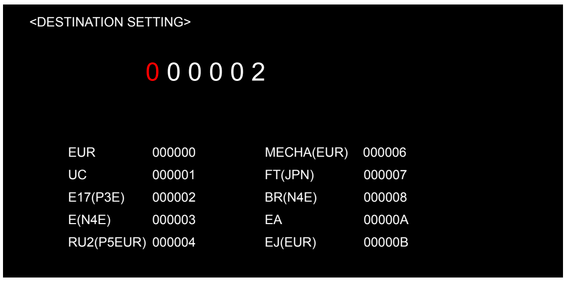
2. Destination Setting

Set destination according to the procedure below.

2-1. Setting the Destination Code

1. In the state of source off (Home screen is displayed), enter the destination setting mode by pressing the buttons in order of the [4] ⟶ [5] ⟶ [6] on the remote commander (press only the [6] button for two seconds).
2. The following screen is displayed and the destination setting mode becomes effective.
   (Displayed characters/values in the following figure are example)

Note: Refer to following "2-2. Entering the Destination Code" for operation method.

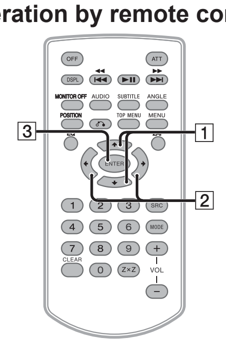


3. The resetting operation is executed by pressing the [OFF] button on the remote commander the setting ends, and the unit returns to the normal condition.

2-2. Entering the Destination Code

Note: Input of the destination code cannot be performed by the keys of main unit. Be sure to input the destination code by remote commander.

- **Method of operation by remote commander**



Note: The ten key cannot be used.

1. Press the [🡅] or [🡇] button, and select the alphanumeric character of "0 to F".
2. The digit advances by pressing the [➡] button.
   The digit returns by pressing the [⬅] button.
3. The setting is completed by pressing the [ENTER] button, and the initialization operation is done.

2-3. Destination Code

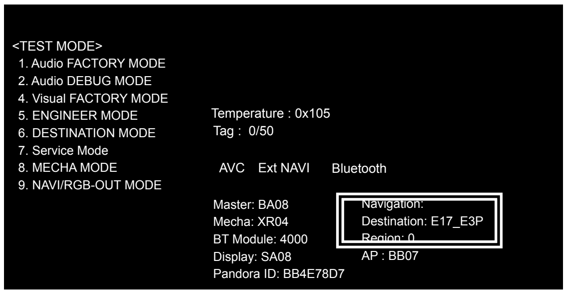
Destination	Desitination code
US and Canadian models	000601
AEP and UK models	000600
Russian model	000604
E (NTSC) model	000603
E (PAL) model	000702
Indian model	000705

3. Confirmation After Destination Setting

Execute the following operation after completing the destination setting, and confirm a correct destination was set.

Destination setting checking method:

1. In the state of source off (Home screen is displayed), enter the test mode by pressing the buttons in order of the [4] ⟶ [5] ⟶ [0] on the remote commander (press only the [0] button for two seconds).
2. The following screen is displayed and confirm that item of the destination has been rewritten correctly.
   (Displayed characters/values in the following figure are example)

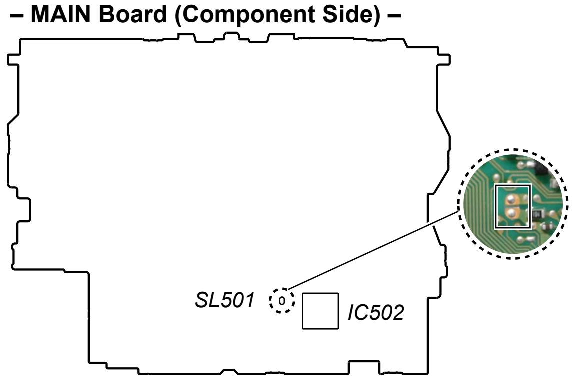


3. The resetting operation is executed by pressing the [OFF] button on the remote commander the confirming ends, and the unit returns to the normal condition.

4. Processing After the Destination Setting

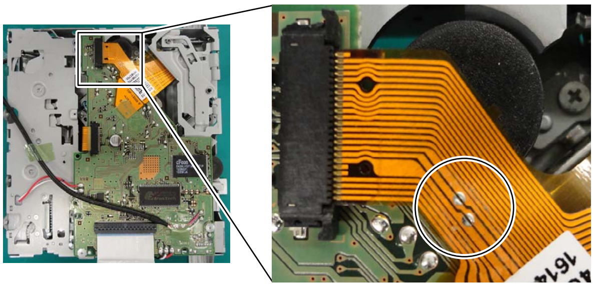
Be sure to unsolder the SL501 on the MAIN board after doing the destination setting.

– MAIN Board (Component Side) –



NOTE FOR FLEXIBLE BOARD OF THE OPTICAL PICK-UP

When connecting or disconnecting the flexible board of the optical pick-up to or from the CN2 of the SERVO board, follow the procedure given below.



Note: When soldering the short lands, solder within 5 seconds at the temperature of soldering iron below 300°C.

Disconnection:

1. Solder two shortland.
2. Disconnect the flexible board from the CN2 of the SERVO board.

Connection:

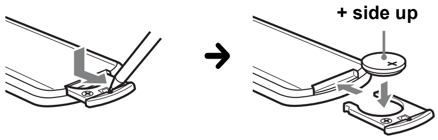
1. Connect the flexible board to the CN2 of the SERVO board.
2. Unsolder two shortland.

ABOUT THE SECURITY FUNCTION

This unit does not use security function by password lock.

REPLACING THE LITHIUM BATTERY OF THE REMOTE COMMANDER

Under normal conditions, the battery will last approximately 1 year. (The service life may be shorter, depending on the conditions of use.)
When the battery becomes weak, the range of the remote commander becomes shorter. Replace the battery with a new CR2025 lithium battery. Use of any other battery may present a risk of fire or explosion.

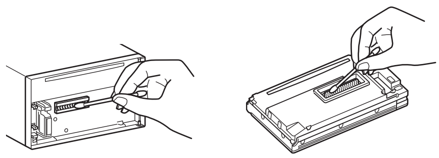


Notes on the lithium battery

- *Keep the lithium battery out of the reach of children. Should the battery be swallowed, immediately consult a doctor.*
- *Wipe the battery with a dry cloth to assure a good contact.*
- *Be sure to observe the correct polarity when installing the battery.*
- *Do not hold the battery with metallic tweezers, otherwise a short-circuit may occur.*

CLEANING THE CONNECTORS

The unit may not function properly if the connectors between the unit and the front panel are not clean. In order to prevent this, detach the front panel and clean the connectors with a cotton swab. Do not apply too much force.
Otherwise, the connectors may be damaged.



Notes

- *For safety, turn off the ignition before cleaning the connectors, and remove the key from the ignition switch.*
- *Never touch the connectors directly with your fingers or with any metal device.*

SECTION 2
GENERAL

This section is extracted from instruction manual.

(US and Canadian models)

English

Cautions

- **Run all ground (earth) leads to a common ground (earth) point.**
- This unit is designed for negative ground (earth) 12 V DC operation only.
- Do not disassemble or modify the unit.
- Do not install in locations which interfere with airbag operation.
- Do not get the leads under a screw, or caught in moving parts (e.g. seat railing).
- Before making connections, turn the car ignition off to avoid short circuits.
- Connect the **yellow** and **red** power supply leads only after all other leads have been connected.
- Be sure to insulate any loose unconnected leads with electrical tape for safety.
- The use of optical instruments with this product will increase eye hazard.
- Do not press on the LCD when installing the unit.
- Install the unit with the monitor facing straight forward; do not install it at a slanted angle.

Notes on the power supply lead (yellow)
- When connecting this unit in combination with other stereo components, the amperage rating of the car circuit to which the unit is connected must be higher than the sum of each component's fuse amperage rating.
- If no car circuits are rated high enough, connect the unit directly to the battery.

Connection diagram 2

❶ **To a common ground (earth) point**
First connect the black ground (earth) lead, then connect the yellow and red power supply leads.

❷ **To the power antenna (aerial) control lead or the power supply lead of the antenna (aerial) booster**
Notes
- It is not necessary to connect this lead if there is no power antenna (aerial) or antenna (aerial) booster, or with a manually-operated telescopic antenna (aerial).
- If your car has a built-in FM/AM antenna (aerial) in the rear/side glass, see "Notes on the control and power supply leads."

To AMP REMOTE IN of an optional power amplifier
This connection is only for amplifiers. Connecting any other system may damage the unit.

❸ **To a car's illumination signal**
Be sure to first connect the black ground (earth) lead to a common ground (earth) point.

❹ **To the +12 V power terminal which is energized when the ignition switch is set to the accessory position**
Notes
- If there is no accessory position, connect to the +12 V power (battery) terminal which is energized at all times.
Be sure to first connect the black ground (earth) lead to a common ground (earth) point.
- If your car has a built-in FM/AM antenna (aerial) in the rear/side glass, see "Notes on the control and power supply leads."

❺ **To the +12 V power terminal which is energized at all times**
Be sure to first connect the black ground (earth) lead to a common ground (earth) point.

❻ **To the parking brake switch cord**
The mounting position of the parking brake switch cord depends on your car. For details, see "Connecting the parking brake lead (5)" on the reverse side.

Ⓐ **To an auxiliary device such as a portable media player, game console, etc. (not supplied)**
Tip
You can use an RCA pin cord (not supplied) to connect auxiliary devices.

Ⓑ **To the +12 V power terminal of the car's rear lamp lead (only when connecting the rear view camera)**

Notes on the control and power supply leads
- REM OUT lead (blue/white striped) supplies +12 V DC when you turn on the unit.
- If your car has built-in FM/AM antenna (aerial) in the rear/side glass, connect REM OUT lead (blue/white striped) or the accessory power supply lead (red) to the power terminal of the existing antenna (aerial) booster. For details, consult your dealer.
- A power antenna (aerial) without a relay box cannot be used with this unit.

Memory hold connection
When the yellow power supply lead is connected, power will always be supplied to the memory circuit even when the ignition switch is turned off.

Notes on speaker connection
- Before connecting the speakers, turn the unit off.
- Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities to avoid damage.
- Do not connect the speaker terminals to the car chassis, or connect the terminals of the right speakers with those of the left speakers.
- Do not connect the ground (earth) lead of this unit to the negative (–) terminal of a speaker.
- Do not attempt to connect the speakers in parallel.
- Connect only passive speakers. Connecting active speakers (with built-in amplifiers) to the speaker terminals may damage the unit.
- To avoid a malfunction, do not use the built-in speaker leads installed in your car if they feature a common negative (–) lead for the right and left speakers.
- Do not connect the unit's speaker leads to each other.

Notes on connection
- If [Check Audio Output Wiring] appears in the display, make sure the speaker and amplifier are connected correctly.
- To use the monitor for the rear seats, connect the parking brake switch cord to the ground (earth).

Français

Précautions

- **Rassemblez tous les câbles de mise à la masse en un point de masse commun.**
- Cet appareil est exclusivement conçu pour fonctionner sur une tension de 12 V CC avec masse négative.
- Ne démontez pas ou ne modifiez pas l'appareil.
- N'installez pas cet appareil dans des endroits susceptibles de gêner le fonctionnement des coussins de sécurité gonflables.
- Évitez de fixer des vis sur les câbles ou de coincer ceux-ci dans des pièces mobiles (par exemple, armature de siège).
- Avant d'effectuer les raccordements, coupez le moteur pour éviter un court-circuit.
- Raccordez les câbles d'alimentation **jaune** et **rouge** seulement après avoir terminé tous les autres raccordements.
- Pour des raisons de sécurité, veillez à isoler avec du ruban isolant tout câble libre non raccordé.
- L'utilisation d'instruments optiques avec ce produit augmente les risques pour les yeux.
- N'exercez pas de pression sur l'écran ACL lors de l'installation de l'appareil.
- Installez l'appareil avec le moniteur orienté droit devant; ne l'installez pas avec un angle incliné.

Remarques sur le câble d'alimentation (jaune)
- Lorsque cet appareil est raccordé à d'autres éléments stéréo, l'intensité nominale du circuit de voiture auquel l'appareil est raccordé doit être supérieure à la somme de l'intensité nominale des fusibles de chaque élément.
- Si aucun circuit de la voiture n'est assez puissant, raccordez directement l'appareil à la batterie.

Schéma de raccordement 2

❶ **À un point de masse commun**
Branchez d'abord le câble de mise à la masse noir et, ensuite, les câbles d'alimentation jaune et rouge.

❷ **Vers le câble de commande d'antenne électrique ou le câble d'alimentation de l'amplificateur d'antenne**
Remarques
- Il n'est pas nécessaire de raccorder ce câble s'il n'y a pas d'antenne électrique ni d'amplificateur d'antenne, ou avec une antenne télescopique manuelle.
- Si votre voiture est équipée d'une antenne FM/AM intégrée dans la vitre arrière/latérale, voir « Remarques sur les câbles de commande et d'alimentation ».

Au niveau de AMP REMOTE IN de l'amplificateur de puissance en option
Ce raccordement s'applique uniquement aux amplificateurs. Le branchement de tout autre système risque d'endommager l'appareil.

❸ **Vers le signal d'éclairage de la voiture**
Raccordez d'abord le câble de mise à la masse noir à un point de masse commun.

❹ **À la borne +12 V qui est alimentée lorsque la clé de contact est sur la position accessoires**
Remarques
- S'il n'y a pas de position accessoires, raccordez à la borne d'alimentation (batterie) +12 V qui est alimentée en permanence.
Raccordez d'abord le câble de mise à la masse noir à un point de masse commun.
- Si votre voiture est équipée d'une antenne FM/AM intégrée dans la vitre arrière/latérale, voir « Remarques sur les câbles de commande et d'alimentation ».

❺ **À la borne +12 V qui est alimentée en permanence**
Raccordez d'abord le câble de mise à la masse noir à un point de masse commun.

❻ **Vers le cordon du capteur du frein à main**
La position de montage du cordon du capteur du frein à main dépend de votre véhicule. Pour plus de détails, consultez « Raccordement du cordon du frein à main (5) » au verso.

Ⓐ **Vers un appareil auxiliaire, tel qu'un lecteur multimédia portatif, une console de jeu, etc. (non fourni(e))**
Conseil
Vous pouvez utiliser un câble RCA (non fourni) pour raccorder les appareils auxiliaires.

Ⓑ **À la borne +12 V du câble des feux arrière du véhicule (uniquement en cas de raccordement de la caméra avec vue arrière)**

Remarques sur les câbles de commande et d'alimentation
- Le câble REM OUT (rayé bleu/blanc) fournit une alimentation de +12 VCC lorsque vous mettez l'appareil en marche.
- Lorsque votre voiture est équipée d'une antenne FM/AM intégrée dans la vitre arrière/latérale, raccordez le câble REM OUT (rayé bleu/blanc) ou le câble d'alimentation des accessoires (rouge) à la borne d'alimentation de l'amplificateur d'antenne existant. Pour plus de détails, consultez votre détaillant.
- Une antenne électrique sans boîtier de relais ne peut pas être utilisée avec cet appareil.

Raccordement pour la conservation de la mémoire
Lorsque le câble d'alimentation jaune est raccordé, le circuit de la mémoire est alimenté en permanence même si la clé de contact est sur la position d'arrêt.

Remarques sur le raccordement des haut-parleurs
- Avant de raccorder les haut-parleurs, mettez l'appareil hors tension.
- Utilisez des haut-parleurs ayant une impédance de 4 à 8 ohms avec une capacité électrique adéquate pour éviter de causer des dommages.
- Ne raccordez pas les bornes du système de haut-parleur au châssis de la voiture et ne raccordez pas les bornes des haut-parleurs droits à celles des haut-parleurs gauches.
- Ne raccordez pas le câble de mise à la masse de cet appareil à la borne négative (–) d'un haut-parleur.
- N'essayez pas de raccorder les haut-parleurs en parallèle.
- Raccordez uniquement des haut-parleurs passifs. Le raccordement de haut-parleurs actifs (avec amplificateurs intégrés) aux bornes des haut-parleurs peut endommager l'appareil.
- Pour éviter tout problème de fonctionnement, n'utilisez pas les câbles de haut-parleurs intégrés installés dans votre voiture s'ils possèdent un câble négatif commun (–) pour les haut-parleurs droit et gauche.
- Ne raccordez pas entre eux les câbles des haut-parleurs de l'appareil.

Remarques sur le raccordement
- Si le message [Vérifiez le câblage de la sortie audio] s'affiche, assurez-vous que le haut-parleur et l'amplificateur sont bien raccordés.
- Si vous avez l'intention d'utiliser le moniteur pour les sièges arrière, raccordez le cordon du capteur du frein à main à la masse.

Español

Precauciones

- **Conecte todos los cables de conexión a masa a un punto común.**
- Esta unidad ha sido diseñada para alimentarse solamente con cc de 12 V de masa negativa.
- No desmonte ni modifique la unidad.
- No instale la unidad en lugares en los que interfiera con el funcionamiento del airbag.
- No coloque los cables debajo de ningún tornillo, ni los aprisione con partes móviles (p. ej. los raíles del asiento).
- Antes de realizar las conexiones, desactive el encendido del automóvil para evitar cortocircuitos.
- Conecte los cables de fuente de alimentación **amarillo** y **rojo** solamente después de haber conectado los demás.
- Por razones de seguridad, asegúrese de aislar con cinta aislante los cables sueltos que no estén conectados.
- El uso de instrumentos ópticos con este producto aumenta el riesgo de sufrir daños oculares.
- No presione la pantalla LCD cuando instale la unidad.
- Al instalar la unidad, el monitor debe mirar hacia adelante; no la instale en un ángulo inclinado.

Notas sobre el cable de fuente de alimentación (amarillo)
- Cuando conecte esta unidad en combinación con otros componentes estéreo, la capacidad nominal del circuito conectado del automóvil debe ser superior a la suma del fusible de cada componente.
- Si no hay circuitos del automóvil con capacidad nominal suficientemente alta, conecte la unidad directamente a la batería.

Diagrama de conexiones 2

❶ **A un punto de conexión a masa común**
Conecte primero el cable de conexión a masa negro, y después los cables de fuente de alimentación rojo y amarillo.

❷ **Al cable de control de la antena motorizada o al cable de fuente de alimentación del amplificador de señal de la antena**
Notas
- Si no se dispone de antena motorizada ni de amplificador de señal de la antena, o se utiliza una antena telescópica accionada manualmente, no será necesario conectar este cable.
- Si el automóvil tiene una antena FM/AM integrada en el cristal posterior o lateral, consulte las "Notas sobre los cables de control y de fuente de alimentación".

A AMP REMOTE IN de un amplificador de potencia opcional
Esta conexión es sólo para amplificadores. La conexión de cualquier otro sistema puede dañar la unidad.

❸ **A una señal de iluminación del automóvil**
Asegúrese de conectar primero el cable de conexión a masa negro a un punto de conexión a masa común.

❹ **Al terminal de alimentación de +12 V que recibe energía en la posición de accesorio del interruptor de la llave de encendido**
Notas
- Si no hay posición de accesorio, conéctelo al terminal de alimentación (batería) de +12 V querecibe energía sin interrupción.
Asegúrese de conectar primero el cable de conexión a masa negro a un punto de conexión a masa común.
- Si el automóvil tiene una antena FM/AM integrada en el cristal posterior o lateral, consulte las "Notas sobre los cables de control y de fuente de alimentación".

❺ **Al terminal de alimentación de +12 V que recibe energía sin interrupción**
Asegúrese de conectar primero el cable de conexión a masa negro a un punto de conexión a masa común.

❻ **Al cable de conmutación del freno de estacionamiento**
La posición de montaje del cable de conmutación del freno de estacionamiento depende del automóvil. Para obtener detalles, vea la sección "Conexión del cable del freno de estacionamiento (5)" del lado reverso.

Ⓐ **A un dispositivo auxiliar, como, por ejemplo, un reproductor portátil, una consola de videojuegos, etc. (no suministrados)**
Sugerencia
Es posible utilizar el cable con terminales RCA (no suministrado) para conectar dispositivos auxiliares.

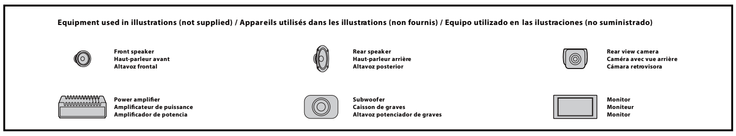
Ⓑ **Al terminal de alimentación de +12 V del cable del indicador posterior del automóvil (únicamente cuando conecte la cámara retrovisora)**

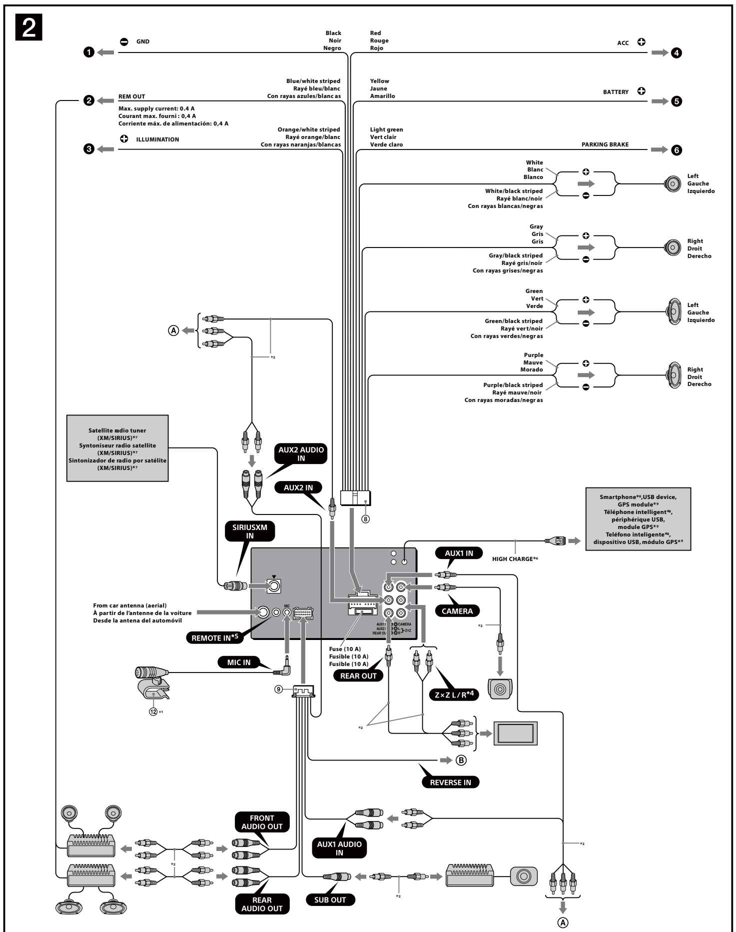
Notas sobre los cables de control y de fuente de alimentación
- El cable REM OUT (rayado azul y blanco) suministra cc +12 V al encender la unidad.
- Si el automóvil dispone de una antena de FM/AM incorporada en el cristal trasero o lateral, conecte el cable REM OUT (rayado azul y blanco) o el cable de fuente de alimentación auxiliar (rojo) al terminal de alimentación del amplificador de señal de la antena existente. Para obtener más detalles, consulte a su distribuidor.
- Con esta unidad no es posible utilizar una antena motorizada sin caja de relé.

Conexión para protección de la memoria
Si conecta el cable de fuente de alimentación amarillo, el circuito de la memoria recibirá siempre alimentación, aunque apague el interruptor de encendido.

Notas sobre la conexión de los altavoces
- Antes de conectar los altavoces, desconecte la alimentación de la unidad.
- Utilice altavoces con una impedancia de 4 a 8 Ω con la capacidad de potencia adecuada para evitar que se dañen.
- No conecte los terminales de altavoz al chasis del automóvil ni conecte los terminales de altavoz derecho con los del izquierdo.
- No conecte el cable de conexión a masa de esta unidad al terminal negativo (–) del altavoz.
- No intente conectar los altavoces en paralelo.
- Conecte solamente altavoces pasivos. Si conecta altavoces activos (con amplificadores incorporados) a los terminales de altavoz, puede dañar la unidad.
- Para evitar fallas de funcionamiento, no utilice los cables de altavoz integrados instalados en el automóvil si la unidad comparte un cable negativo común (–) para los altavoces derecho e izquierdo.
- No conecte los cables de altavoz de la unidad entre sí.

Notas sobre la conexión
- Si en la pantalla, aparece [Verifique el cableado de salida audio], verifique que el altavoz y el amplificador estén conectados correctamente.
- Si va a utilizar el monitor para los asientos posteriores, conecte el cable de conmutación del freno de estacionamiento a masa.





*1 For details on installing the microphone, see "Installing the microphone (6)" on the reverse side.
*2 RCA pin cord (not supplied)
*4 The sound is output from this terminal only when ZONE × ZONE is activated. This terminal outputs a fixed level regardless of the volume control of the unit.
*5 A separate adaptor may be required.
*6 The USB rear cable labeled "HIGH CHARGE" is recommended to use for recharging the battery of a connected device.
*7 Not supplied
*8 To connect a smartphone to the main unit, an appropriate cable (not supplied) is required.
*9 GPS module for AV Center (XA-NV300T) (not supplied).

*1 Reportez-vous à la section « Installation du microphone (6) » pour obtenir les détails sur l'installation, au verso.
*2 Cordon à broches RCA (non fourni)
*4 Le son est uniquement émis par cette borne lorsque ZONE × ZONE est activé. Cette borne émet le son à un niveau défini, quel que soit le réglage du volume de cet appareil.
*5 L'utilisation d'un adaptateur pourrait être nécessaire.
*6 Le câble USB arrière marqué « HIGH CHARGE » est recommandé pour recharger la batterie d'un périphérique raccordé.
*7 Non fourni
*8 Pour raccorder un téléphone intelligent à l'appareil principal, un câble approprié (non fourni) est requis.
*9 Module GPS pour centre AV (XA-NV300T) (non fourni).

*1 Para obtener detalles sobre la instalación del micrófono, consulte "Instalación del micrófono (6)" al reverso.
*2 Cable con terminales RCA (no suministrado)
*4 El sonido se emitirá a través de este terminal sólo cuando esté activado ZONE × ZONE. Este terminal emite a un nivel fijo independientemente del control de volumen de la unidad.
*5 Puede requerirse un adaptador independiente.
*6 Se recomienda utilizar el cable posterior de USB denominado "HIGH CHARGE" para recargar la batería de un dispositivo conectado.
*7 No suministrado
*8 Para conectar un teléfono inteligente a la unidad principal, es necesario utilizar un cable adecuado (no suministrado).
*9 Módulo GPS para el centro de AV (XA-NV300T) (no suministrado).

XAV-602BT

English

Precautions

- Choose the installation location carefully so that the unit will not interfere with normal driving operations.
- Avoid installing the unit in areas subject to dust, dirt, excessive vibration, or high temperature, such as in direct sunlight or near heater ducts.
- Use only the supplied mounting hardware for a safe and secure installation.
- To move the front panel smoothly, to insert/eject a disc easily, and especially to drive safely, keep an adequate distance between the front panel and the shift lever. The necessary distance differs, depending on the shift lever position of your car. Before installing the unit, choose the installation location carefully so that you can drive safely.

Mounting angle adjustment

Adjust the mounting angle to less than 45°.

Connecting the parking brake lead 5

Be sure to connect the parking brake lead (light green) of the power supply connection cable ⑧ to the parking brake switch cord.

Installing the microphone 6

To capture your voice during handsfree calling, you need to install the microphone ⑫.

Cautions
- Keep the microphone away from extremely high temperatures and humidity.
- It is extremely dangerous if the cord becomes wound around the steering column or gearstick. Be sure to keep it and other parts from obstructing your driving.
- If airbags or any other shock-absorbing equipment is in your car, contact the store where you purchased this unit, or the car dealer, before installation.

Notes
- Before attaching the double-sided tape ⓑ, clean the surface of the dashboard with a dry cloth.
- Adjust the microphone angle to the proper position.

How to detach and attach the front panel 7

Before installing the unit, detach the front panel.

7-A To detach

Before detaching the front panel, press and hold OFF for more than 2 seconds to turn off the unit. Press ⏏, and then hold the left side of the front panel and pull it open to the right.

Tip
If you also lift the left side of the front panel slightly ❶, the front panel comes out easily.

7-B To attach

Place the recesses Ⓐ of the front panel onto the pegs Ⓑ on the unit, then lightly push the left side in.

Mounting the unit 10

10-B Mounting the unit with an installation kit (not supplied) (XAV-602BT only)

You can use a commercially available double DIN installation kit. Choose an installation kit with the following panel frame size.
Larger than 172 ×97 mm (6 $^{7}/_{8}$ × 3 $^{7}/_{8}$ in) (w/h), with an inner corner radius of less than 0.5 mm ($^{1}/_{32}$ in).

Notes
- Be sure to use the supplied screws ⑩.
- Before installing the unit with the installation kit mounted, be sure to perform the following confirmation:
  Power the unit on, and open/close the front panel by pressing ⏏ repeatedly to check that the front panel does not touch the installation kit.

10-C Mounting the unit in a Japanese car

You may be able to install this unit in some makes of Japanese cars without the supplied bracket. If you cannot, consult your Sony dealer.

When mounting this unit to the preinstalled brackets of your car, use the supplied screws ⑩ in the appropriate screw holes, based on your car: T for TOYOTA, M for MITSUBISHI and N for NISSAN.

Notes
- To avoid a malfunction, install only with the supplied screws ⑩.
- Do not apply excessive force to the buttons of the unit.
- Do not press on the LCD.
- Before mounting, make sure there is nothing on the top of the unit.

Warning if your car's ignition has no ACC position

Be sure to set the Auto OFF function. For details, refer to the supplied "Operating Instructions."
The unit will shut off completely and automatically in the set time when no source is selected, which prevents battery drainage.
If the Auto OFF function has not been set, press and hold OFF until the display disappears each time you turn the ignition off.

Reset button 11

When the installation and connections are completed, be sure to press the reset button, which is located behind the front panel, with a ballpoint pen, etc.

Fuse replacement 12

When replacing the fuse, be sure to use one matching the amperage rating stated on the original fuse. If the fuse blows, check the power connection and replace the fuse. If the fuse blows again after replacement, there may be an internal malfunction. In such a case, consult your nearest Sony dealer.

Français

Précautions

- Choisissez soigneusement l'emplacement d'installation pour que l'appareil ne gêne pas le conducteur pendant la conduite.
- Évitez d'installer l'appareil dans un endroit exposé à la poussière, à la saleté, à des vibrations excessives ou à des températures élevées comme en plein soleil ou à proximité de conduits de chauffage.
- Pour garantir un montage sûr, n'utilisez que le matériel fourni.
- Pour déplacer la façade correctement, insérer/éjecter un disque facilement et avant tout conduire en toute sécurité, laissez une distance adéquate entre la façade et le levier de vitesses. La distance requise varie selon la position du levier de vitesses dans votre véhicule. Avant d'installer l'appareil, choisissez soigneusement l'emplacement d'installation afin de pouvoir conduire en toute sécurité.

Réglage de l'angle de montage

Ajustez l'inclinaison à un angle inférieur à 45°.

Raccordement du cordon du frein à main 5

Veillez à raccorder le cordon du frein à main (vert clair) du câble de raccordement d'alimentation ⑧ au cordon du capteur du frein à main.

Installation du microphone 6

Pour capturer votre voix durant les appels mains libres, vous devez installer le microphone ⑫.

Attention
- N'exposez pas le microphone à des températures extrêmement élevées et à l'humidité.
- Veillez à ce que le cordon ne soit pas enroulé autour du volant ou du levier de vitesses. Ceci peut s'avérer extrêmement dangereux. Veillez à ce que le cordon et les autres pièces ne gênent pas votre conduite.
- Si un système de coussins de sécurité gonflables ou tout autre équipement absorbant les chocs est présent dans votre véhicule, contactez le magasin où vous avez acheté cet appareil ou votre concessionnaire avant l'installation.

Remarques
- Avant de fixer l'adhésif double face ⓑ, nettoyez la surface du tableau de bord avec un chiffon sec.
- Réglez l'angle du microphone afin de le positionner correctement.

Retrait et fixation de la façade 7

Avant d'installer l'appareil, retirez la façade.

7-A Pour la retirer

Avant de retirer la façade, maintenez enfoncée la touche OFF pendant plus de 2 secondes pour éteindre l'appareil. Appuyez sur ⏏, puis saisissez le côté gauche de la façade et ouvrez cette dernière en tirant vers la droite.

Conseil
Si vous soulevez aussi légèrement le côté gauche de la façade ❶, la façade se détache facilement.

7-B Pour la fixer

Placez les cavités Ⓐ de la façade sur les tiges Ⓑ de l'appareil, puis appuyez légèrement sur le côté gauche pour l'insérer.

Montage de l'appareil 10

10-B Montage de l'appareil à l'aide d'un kit d'installation (non fourni) (XAV-602BT uniquement)

Vous pouvez utiliser un kit d'installation DIN double disponible sur le marché. Choisissez un kit d'installation dont la taille du cadre de la façade est la suivante:
Largeur minimale de 172 ×97 mm (6 $^{7}/_{8}$ × 3 $^{7}/_{8}$ po) (l/h), avec un rayon d'arrondi interne inférieur à 0,5 mm ($^{1}/_{32}$ po).

Remarques
- Veillez à utiliser exclusivement les vis ⑩ fournies.
- Avant d'installer l'appareil avec le kit d'installation monté, veillez à effectuer la vérification suivante :
  Mettez l'appareil sous tension, puis ouvrez et fermez la façade en appuyant plusieurs fois sur ⏏ pour vérifier que la façade ne touche pas le kit d'installation.

10-C Montage de l'appareil dans une voiture japonaise

Il peut être possible d'installer cet appareil dans certaines voitures de marques japonaises sans le support fourni. Dans le cas contraire, consultez votre détaillant Sony le plus proche.

Si vous installez cet appareil sur les supports préinstallés de votre véhicule, faites passer les vis ⑩ fournies par les trous de vis appropriés, en fonction de votre véhicule : T pour TOYOTA, M pour MITSUBISHI et N pour NISSAN.

Remarques
- Pour éviter tout problème de fonctionnement, utilisez uniquement les vis ⑩ fournies pour le montage.
- N'exercez pas de pression excessive sur les touches de l'appareil.
- N'exercez aucune pression sur l'écran ACL.
- Avant de procéder au montage, assurez-vous que rien ne se trouve au-dessus de l'appareil.

Avertissement si le contact de votre véhicule ne comporte pas de position ACC

Veillez à régler la fonction Auto DÉSACTIVÉ. Pour obtenir davantage d'informations, consultez le « Mode d'emploi » fourni.
L'appareil s'éteint complètement et automatiquement après le laps de temps choisi lorsqu'aucune source n'est sélectionnée, afin d'éviter que la batterie ne se décharge.
Si vous ne réglez pas la fonction Auto DÉSACTIVÉ, appuyez sur la touche OFF et maintenez-la enfoncée jusqu'à ce que l'affichage disparaisse à chaque fois que vous coupez le contact.

Touche de réinitialisation 11

Une fois que l'installation et les raccordements sont terminés, veillez à appuyer sur la touche de réinitialisation située derrière la façade à l'aide d'un stylo à bille, etc.

Remplacement du fusible 12

Lorsque vous remplacez le fusible, veillez à utiliser un fusible dont l'intensité, en ampères, correspond à la valeur indiquée sur le fusible usagé. Si le fusible grille, vérifiez le branchement de l'alimentation et remplacez le fusible. Si le nouveau fusible grille également, il est possible que l'appareil soit défectueux. Dans ce cas, consultez votre détaillant Sony le plus proche.

Español

Precauciones

- Elija cuidadosamente el lugar de montaje de forma que la unidad no interfiera con las funciones normales de conducción.
- Evite instalar la unidad donde pueda quedar sometida a polvo, suciedad, vibraciones excesivas o altas temperaturas como, por ejemplo, a la luz solar directa o cerca de conductos de calefacción.
- Para realizar una instalación segura y firme, utilice solamente elementos de instalación suministrados.
- Para mover el panel frontal con suavidad, insertar/extraer discos fácilmente y sobre todo para conducir con seguridad, es necesario mantener cierta distancia entre el panel frontal y la palanca de cambios. La distancia necesaria varía en función de la posición de la palanca de cambios de su automóvil. Antes de instalar la unidad, elija cuidadosamente el lugar de instalación para que pueda conducir con seguridad.

Ajuste del ángulo de montaje

Ajuste el ángulo de montaje a menos de 45°.

Conexión del cable del freno de estacionamiento 5

Asegúrese de conectar el cable del freno de estacionamiento (verde claro) del cable de conexión de la fuente de alimentación ⑧ al cable de conmutación del freno de estacionamiento.

Instalación del micrófono 6

Para capturar la voz durante llamadas con manos libres, debe instalar el micrófono ⑫.

Precauciones
- Mantenga el micrófono alejado de lugares con humedad y temperaturas muy altas.
- Que el cable se enrolle alrededor del volante o de la palanca de cambios es extremadamente peligroso. Asegúrese de impedir que el cable y otros componentes obstruyan la conducción.
- Si el vehículo dispone de airbags u otros dispositivos de amortiguación de impactos, póngase en contacto con el establecimiento donde ha adquirido esta unidad o con el concesionario de automóviles antes de llevar a cabo la instalación.

Notas
- Antes de colocar la cinta adhesiva de doble cara ⓑ, limpie la superficie del tablero con un paño seco.
- Ajuste el ángulo del micrófono en la posición adecuada.

Forma de extraer e instalar el panel frontal 7

Antes de instalar la unidad, extraiga el panel frontal.

7-A Para extraerlo

Antes de extraer el panel frontal, mantenga presionado OFF durante más de 2 segundos para desactivar la unidad. Presione ⏏, y luego mantenga apretado el lado izquierdo del panel frontal y tire para abrirlo hacia la derecha.

Consejo
Si también levanta ligeramente el lado izquierdo del panel frontal ❶, el panel frontal saldrá fácilmente.

7-B Para instalarlo

Coloque los orificios Ⓐ del panel frontal en las clavijas Ⓑ de la unidad, luego presione suavemente el lado izquierdo.

Montaje de la unidad 10

10-B Montaje de la unidad con un kit de instalación (no suministrado) (solo XAV-602BT)

Puede utilizar un kit de instalación doble DIN disponible en el mercado. Elija un kit de instalación con el marco del panel del tamaño que se indica a continuación.
Superior a 172 ×97 mm (an/al), con un radio en la esquina interior inferior a 0,5 mm.

Notas
- Asegúrese de utilizar los tornillos suministrados ⑩.
- Antes de instalar la unidad con el kit de instalación montado, asegúrese de realizar la siguiente comprobación:
  Encienda la unidad y presione ⏏ varias veces para abrir/cerrar el panel frontal y compruebe que éste no entre en contacto con el kit de instalación.

10-C Montaje de la unidad en un automóvil japonés

Es posible que pueda instalar la unidad en algunos automóviles japoneses sin el soporte suministrado. En caso de que no pudiera, consulte al distribuidor Sony más cercano.

Cuando monte la unidad en los soportes preinstalados de su automóvil, utilice los tornillos suministrados ⑩ en los orificios para tornillos correspondientes en función de su automóvil: T para TOYOTA, M para MITSUBISHI y N para NISSAN.

Notas
- Para evitar que se produzcan fallas de funcionamiento, realice la instalación solamente con los tornillos suministrados ⑩.
- No ejerza excesiva fuerza sobre los botones de la unidad.
- No presione la pantalla LCD.
- Asegúrese de que no hay ningún objeto encima de la unidad antes de montarla.

Advertencia: si el encendido del automóvil no dispone de una posición ACC

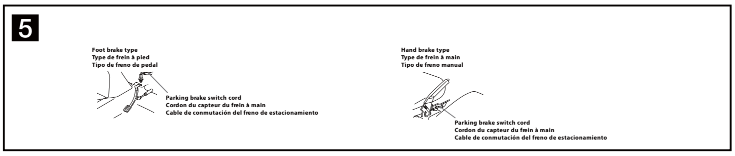
Asegúrese de ajustar la función Auto DESACTIVAR. Para obtener más información, consulte el "Manual de instrucciones" suministrado.
La unidad se apagará completa y automáticamente en el tiempo establecido si no se selecciona ninguna fuente, lo cual evita que se desgaste la batería.
Si no ha ajustado la función Auto DESACTIVAR, mantenga presionado OFF cada vez que apague el interruptor de encendido, hasta que la pantalla desaparezca.

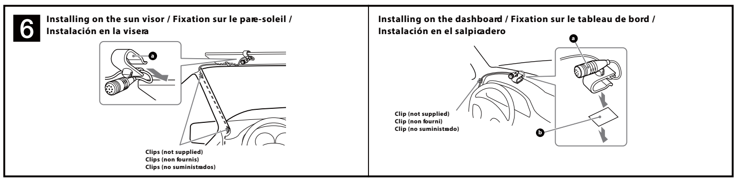
Botón de reinicio 11

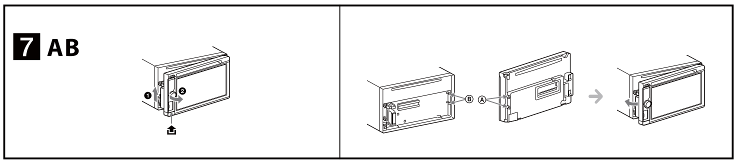
Una vez finalizadas la instalación y las conexiones, asegúrese de presionar el botón de reinicio, que está ubicado detrás del panel frontal, con bolígrafo, etc.

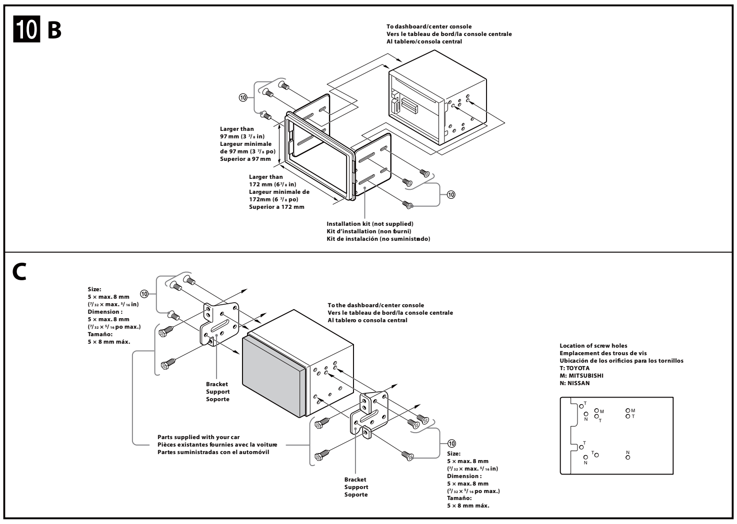
Sustitución del fusible 12

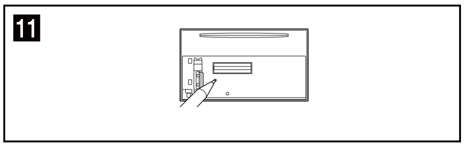
Al sustituir el fusible, asegúrese de utilizar uno cuyo amperaje coincida con el especificado en el original. Si el fusible se funde, verifique la conexión de alimentación y sustitúyalo. Si el fusible vuelve a fundirse después de sustituirlo, es posible que exista alguna falla de funcionamiento interno. En tal caso, consulte con el distribuidor Sony más cercano.

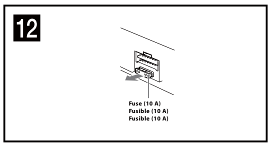












(AEP and UK models)

English

Cautions

- **Run all ground (earth) leads to a common ground (earth) point.**
- This unit is designed for negative ground (earth) 12 V DC operation only.
- Do not disassemble or modify the unit.
- Do not install in locations which interfere with airbag operation.
- Do not get the leads under a screw, or caught in moving parts (e.g. seat railing).
- Before making connections, turn the car ignition off to avoid short circuits.
- Connect the power supply connection cable ③ to the unit and speakers before connecting it to the auxiliary power connector.
- Be sure to insulate any loose unconnected leads with electrical tape for safety.
- Do not press on the LCD when installing the unit.
- Install the unit with the monitor facing straight forward; do not install it at a slanted angle.

Notes on the power supply lead (yellow)
- When connecting this unit in combination with other stereo components, the amperage rating of the car circuit to which the unit is connected must be higher than the sum of each component's fuse amperage rating.
- If no car circuits are rated high enough, connect the unit directly to the battery.

Connection diagram 2

❶ **To AMP REMOTE IN of an optional power amplifier**
This connection is only for amplifiers. Connecting any other system may damage the unit.

❷ **To the parking brake switch cord**
The mounting position of the parking brake switch cord depends on your car. For details, see "Connecting the parking brake lead (3)" on the reverse side.

Ⓐ **To an auxiliary device such as a portable media player, game console, etc. (not supplied)**
Tip
You can use an RCA pin cord (not supplied) to connect auxiliary devices.

Ⓑ **To the +12 V power terminal of the car's rear lamp lead (only when connecting the rear view camera)**

Warning

If you have a power antenna (aerial) without a relay box, connecting this unit with the supplied power supply connection cable ③ may damage the antenna (aerial).

Notes on the control and power supply leads
- The power antenna (aerial) control lead (blue) supplies +12 V DC when you turn on the tuner, or when you activate the AF (Alternative Frequency) or TA (Traffic Announcement) function.
- If your car has a built-in FM/MW/LW antenna (aerial) in the rear/side glass, connect the power antenna (aerial) control lead (blue) or the accessory power supply lead (red) to the power terminal of the antenna (aerial) booster. For details, consult your car dealer.
- A power antenna (aerial) without a relay box cannot be used with this unit.

Memory hold connection
When the yellow power supply lead is connected, power will always be supplied to the memory circuit even when the ignition switch is turned off.

Notes on speaker connection
- Before connecting the speakers, turn the unit off.
- Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities to avoid damage.
- Do not connect the speaker terminals to the car chassis, or connect the terminals of the right speakers with those of the left speakers.
- Do not connect the ground (earth) lead of this unit to the negative (–) terminal of a speaker.
- Do not attempt to connect the speakers in parallel.
- Connect only passive speakers. Connecting active speakers (with built-in amplifiers) to the speaker terminals may damage the unit.
- To avoid a malfunction, do not use the built-in speaker leads installed in your car if they feature a common negative (–) lead for the right and left speakers.
- Do not connect the unit's speaker leads to each other.

Notes on connection
- If [Check Audio Output Wiring] appears in the display, make sure the speaker and amplifier are connected correctly.
- To use the monitor for the rear seats, connect the parking brake switch cord to the ground (earth).

Español

Precauciones

- **Conecte todos los cables de conexión a masa a un punto común.**
- Esta unidad ha sido diseñada para alimentarse sólo con cc de 12V de masa negativa.
- No desmonte ni modifique la unidad.
- No la instale en ubicaciones que puedan interferir con el funcionamiento del airbag.
- No coloque los cables debajo de ningún tornillo, ni los aprisione con partes móviles (p.ej. los raíles del asiento).
- Antes de realizar las conexiones, desactive el encendido del vehículo para evitar cortocircuitos.
- Conecte el cable de suministro de alimentación (3) a la unidad y a los altavoces antes de conectarlo al conector de alimentación auxiliar.
- Por razones de seguridad, asegúrese de aislar con cinta aislante los cables sueltos que no estén conectados.
- No presione la pantalla de cristal líquido al instalar la unidad.
- Instale la unidad con el monitor encarado hacia delante; no la instale en ángulo.

Notas sobre el cable de fuente de alimentación (amarillo)
- Cuando conecte esta unidad en combinación con otros componentes estéreo, la capacidad nominal del circuito del automóvil al que se conecta la unidad debe ser superior a la suma de la capacidad nominal de los fusibles de cada componente.
- Si no hay circuitos del automóvil con una capacidad nominal suficientemente alta, conecte la unidad directamente a la batería.

Diagrama de conexión 2

❶ **A AMP REMOTE IN de un amplificador de potencia opcional**
Esta conexión es sólo para amplificadores. La conexión de cualquier otro sistema puede dañar la unidad.

❷ **Al cable del interruptor del freno de mano**
La posición de montaje del cable del interruptor del freno de mano depende de su vehículo. Para obtener más información, consulte "Conexión del cable del freno de mano (3)" en el reverso.

Ⓐ **A dispositivos auxiliares, por ejemplo, a un reproductor multimedia portátil,a una consola de videojuegos, etc. (no suministrados)**
Sugerencia
Es posible utilizar un cable RCA (no suministrado) para conectar dispositivos auxiliares.

Ⓑ **Al terminal de alimentación de +12 V del cable de la luz trasera del vehículo (únicamente cuando se conecta la cámara de visualización posterior)**

Advertencia

Si dispone de una antena motorizada sin caja de relé, es posible que la conexión de esta unidad mediante el cable de suministro de alimentación ③ suministrado provoque daños en la antena.

Notas sobre los cables de control y de fuente de alimentación
- El cable de control de la antena motorizada (azul) suministrará cc de +12V cuando encienda el sintonizador o active la función AF (Frecuencias alternativas) o TA (Notificación de tráfico).
- Si el vehículo tiene una antena de FM/MW/LW integrada en el cristal trasero/lateral, conecte el cable de control de la antena motorizada (azul) o el cable de fuente de alimentación auxiliar (rojo) al terminal de alimentación del amplificador de la antena. Para obtener más información, consulte a su distribuidor.
- Con esta unidad no es posible utilizar una antena motorizada sin caja de relé.

Conexión para protección de la memoria
Si conecta el cable de fuente de alimentación amarillo, el circuito de la memoria recibirá siempre alimentación, aunque apague el interruptor de encendido.

Notas sobre la conexión de los altavoces
- Antes de conectar los altavoces, desconecte la alimentación de la unidad.
- Utilice altavoces con una impedancia de 4 a 8 ohmios con la capacidad de potencia adecuada para evitar que se dañen.
- No conecte los terminales de altavoz al chasis del vehículo ni conecte los terminales de los altavoces derechos a los terminales de los altavoces izquierdos.
- No conecte el cable de conexión a masa de esta unidad al terminal negativo (–) de un altavoz.
- No intente conectar los altavoces en paralelo.
- Conecte solamente altavoces pasivos. Si conecta altavoces activos (con amplificadores incorporados) a los terminales de altavoz, puede dañar la unidad.
- Para evitar fallos de funcionamiento, no utilice los cables de altavoz incorporados instalados en el vehículo si tienen un cable negativo (–) común para los altavoces derecho e izquierdo.
- No conecte los cables de altavoz de la unidad entre sí.

Notas sobre la conexión
- Si aparece el mensaje [Verifique el cableado de salida audio] en la pantalla, compruebe que el altavoz y el amplificador estén conectados correctamente.
- Si desea utilizar el monitor para los asientos traseros, conecte el cable del interruptor del freno de mano a la toma de masa.

Italiano

Attenzione

- **Portare tutti i cavi di massa a un punto di massa comune.**
- Questo apparecchio è stato progettato per l'uso solo a 12 V CC con massa negativa.
- Non smontare o modificare l'apparecchio.
- Non installare l'apparecchio in luoghi in cui potrebbe interferire con il funzionamento del sistema airbag.
- Evitare che i cavi rimangano bloccati da una vite o incastrati nelle parti mobili (ad esempio nelle guide scorrevoli dei sedili).
- Prima di effettuare i collegamenti, spegnere il motore dell'automobile onde evitare di causare cortocircuiti.
- Collegare il cavo di collegamento dell'alimentazione ③ all'apparecchio e ai diffusori prima di collegarlo al connettore di alimentazione ausiliaria.
- Per sicurezza, assicurarsi di isolare qualsiasi cavo non collegato utilizzando del nastro adesivo.
- Durante l'installazione dell'apparecchio, prestare attenzione a non toccare lo schermo LCD.
- Assicurarsi di installare l'apparecchio dritto; non installare l'apparecchio con l'angolazione del monitor modificata.

Note sul cavo di alimentazione (giallo)
- Se questo apparecchio viene collegato in combinazione con altri componenti stereo, la potenza nominale dei circuiti dell'automobile deve essere superiore a quella prodotta dalla somma dei fusibili di ciascun componente.
- Se la potenza nominale dei circuiti dell'automobile non è sufficiente, collegare l'apparecchio direttamente alla batteria.

Schema di collegamento 2

❶ **A AMP REMOTE IN di un amplificatore di potenza opzionale**
Questo collegamento è riservato esclusivamente agli amplificatori. Non collegare un tipo di sistema diverso onde evitare di causare danni all'apparecchio.

❷ **Al cavo di commutazione del freno a mano**
La posizione di montaggio del cavo di commutazione del freno a mano varia in base all'auto. Per dettagli, consultare "Collegamento del cavo del freno a mano (3)" sul lato opposto.

Ⓐ **All'apparecchio ausiliario, quale ad esempio un lettore portatile, un dispositivo di gioco e così via (non in dotazione)**
Suggerimento
È possibile utilizzare un cavo a piedini RCA (non in dotazione) per collegare i dispositivi ausiliari.

Ⓑ **Al terminale di alimentazione da +12 V del cavo spia della retromarcia dell'auto (solo se viene collegata la videocamera posteriore)**

Avvertenza

Quando si collega l'apparecchio con il cavo di collegamento dell'alimentazione in dotazione ③, si potrebbe danneggiare l'antenna elettrica, se questa non dispone di scatola a relé.

Note sui cavi di controllo e di alimentazione
- Il cavo (blu) di controllo dell'antenna elettrica fornisce alimentazione pari a +12 VCC quando si attiva il sintonizzatore oppure la funzione TA (notiziario sul traffico) o AF (frequenza alternativa).
- Se l'automobile è dotata di antenna FM/MW/LW incorporata nel vetro posteriore/laterale, collegare il cavo (blu) di controllo dell'antenna elettrica o il cavo (rosso) di ingresso dell'alimentazione accessoria al terminale di alimentazione del preamplificatore dell'antenna esistente. Per ulteriori informazioni, consultare l'autoconcessionario.
- Non è possibile usare un'antenna elettrica senza scatola a relè con questo apparecchio.

Collegamento per la conservazione della memoria
Quando il cavo di ingresso alimentazione giallo è collegato, viene sempre fornita alimentazione al circuito di memoria anche quando l'interruttore di accensione è spento.

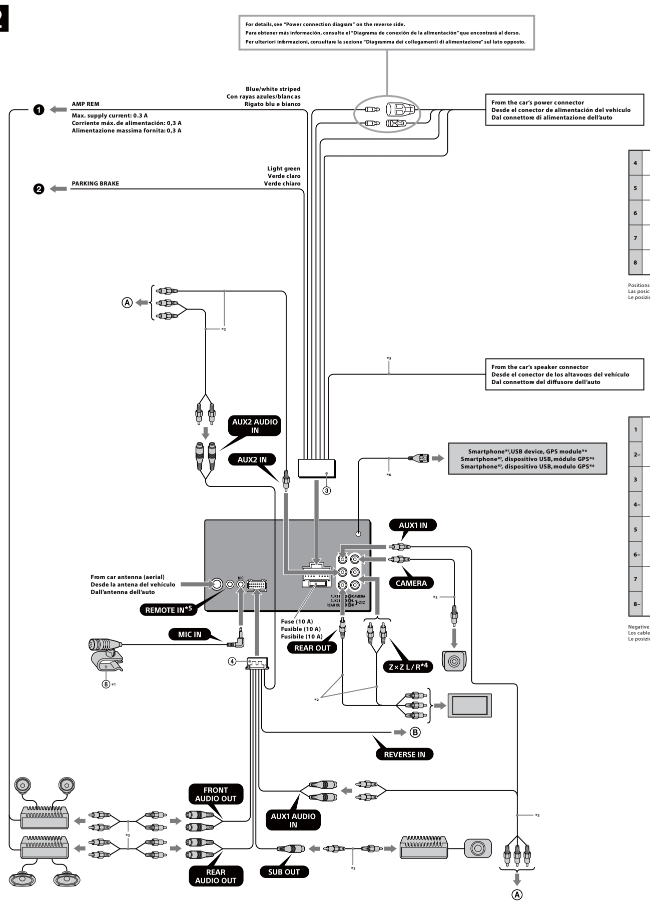
Note sul collegamento dei diffusori
- Prima di collegare i diffusori spegnere l'apparecchio.
- Utilizzare diffusori con impedenza compresa tra 4 e 8 ohm e con capacità di potenza adeguata, altrimenti i diffusori potrebbero venire danneggiati.
- Non collegare i terminali del sistema diffusori al telaio dell'auto e non collegare i terminali dei diffusori destri a quelli dei diffusori sinistri.
- Non collegare il cavo di terra di questo apparecchio al terminale negativo (–) di un diffusore.
- Non collegare i diffusori in parallelo.
- Assicurarsi di collegare soltanto diffusori passivi, poiché il collegamento di diffusori attivi, dotati di amplificatori incorporati, ai terminali dei diffusori potrebbe danneggiare l'apparecchio.
- Per evitare problemi di funzionamento, non utilizzare i cavi dei diffusori incorporati installati nell'automobile se l'apparecchio condivide un cavo comune negativo (–) per i diffusori destro e sinistro.
- Non collegare fra loro i cavi dei diffusori dell'apparecchio.

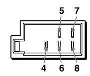
Note sui collegamenti
- Se [Controll. il collegam. di uscita audio] viene visualizzato sul display, accertarsi che l'amplificatore e il diffusore siano collegati correttamente.
- Se viene utilizzato il monitor per i sedili posteriori,collegare il cavo di commutazione del freno a mano alla massa (terra).

Equipment used in illustrations (not supplied) / Equipo utilizado en las ilustraciones (no suministrado) / Apparecchiatura utilizzata nelle illustrazioni (non in dotazione)

English	Español	Italiano
Front speaker	Altavoz frontal	Diffusore anteriore
Rear speaker	Altavoz posterior	Diffusore posteriore
Rear view camera	Cámara de visión trasera	Telecamera per retromarcia
Power amplifier	Amplificador de potencia	Amplificatore di potenza
Subwoofer	Altavoz potenciador de graves	Subwoofer
Monitor	Monitor	Monitor

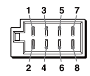
2





4	Yellow Amarillo Giallo	Continuous power supply Fuente de alimentación continua Alimentazione continua
5	Blue Azul Blu	Power antenna (aerial) control Control de la antena motorizada Comando dell'antenna elettrica
6	Orange/white Naranja/blanco Arancione/bianco	Switched illumination power supply Fuente de alimentación de iluminación conmutada Alimentazione illuminazione commutata
7	Red Rojo Rosso	Switched power supply Fuente de alimentación conmutada Alimentazione commutata
8	Black Negro Nero	Ground (earth) Masa Terra

Positions 1, 2, and 3 do not have pins.
Las posiciones 1, 2 y 3 no tienen terminales.
Le posizioni 1, 2 e 3 non hanno piedini.



1	Purple Morado Viola	+	Speaker, rear, right Altavoz, posterior, derecho Diffusore, posteriore, destro
2–			Speaker, rear, right Altavoz, posterior, derecho Diffusore, posteriore, destro
3	Gray Gris Grigio	+	Speaker, front, right Altavoz, frontal, derecho Diffusore, anteriore, destro
4–			Speaker, front, right Altavoz, frontal, derecho Diffusore, anteriore, destro
5	White Blanco Bianco	+	Speaker, front, left Altavoz, frontal, izquierdo Diffusore, anteriore, sinistro
6–			Speaker, front, left Altavoz, frontal, izquierdo Diffusore, anteriore, sinistro
7	Green Verde Verde	+	Speaker, rear, left Altavoz, posterior, izquierdo Diffusore, posteriore, sinistro
8–			Speaker, rear, left Altavoz, posterior, izquierdo Diffusore, posteriore, sinistro

Negative polarity positions 2, 4, 6, and 8 have striped leads.
Los cables de las posiciones de polaridad negativa 2, 4, 6 y 8 son rayados.
Le posizioni a polarità negativa 2, 4, 6 e 8 hanno cavi rigati.

*1 For details on installing the microphone, see "Installing the microphone (4)" on the reverse side.
*2 RCA pin cord (not supplied)
*3 Speaker impedance: 4 – 8 ohms × 4
*4 The sound is output from this terminal only when ZONE × ZONE is activated. This terminal outputs a fixed level regardless of the volume control of the unit.
*5 A separate adaptor may be required.
*6 The USB rear cable labeled "HIGH CHARGE" is recommended to use for recharging the battery of a connected device.
*7 To connect a smartphone to the main unit, an appropriate cable (not supplied) is required.
*8 GPS module for AV Center (XA-NV300T) (not supplied).

*1 Para obtener más información acerca de la instalación del micrófono, consulte "Instalación del micrófono (4)" en el reverso.
*2 Cable con terminales RCA (no suministrado)
*3 Impedancia del altavoz: 4 – 8 Ω × 4
*4 El sonido se emitirá a través de este terminal sólo cuando esté activado ZONE × ZONE. Este terminal emite a un nivel fijo independientemente del control de volumen de la unidad.
*5 Es posible que se necesite un adaptador independiente.
*6 El cable USB posterior identificado como "HIGH CHARGE" es el cable recomendado para recargar la batería de un dispositivo conectado.
*7 Para conectar un smartphone a la unidad principal, hace falta un cable adecuado (no suministrado).
*8 Módulo GPS para AV Center (XA-NV300T) (no suministrado).

*1 Per ulteriori informazioni sull'installazione del microfono, consultare la sezione "Installazione del microfono (4)" sul lato opposto.
*2 Cavo a piedini RCA (non in dotazione)
*3 Impedenza diffusori: da 4 a 8 ohm × 4
*4 L'audio viene trasmesso da questo terminale solo quando è attivata la ZONE × ZONE. Il livello di trasmissione di questo terminale è fisso e non viene influenzato dal comando del volume del presente apparecchio.
*5 Potrebbe essere necessario un adattatore separato.
*6 Per la ricarica della batteria di un dispositivo collegato, si consiglia di utilizzare il cavo posteriore USB riportante l'etichetta "HIGH CHARGE".
*7 Per collegare uno smartphone all'unità principale, è necessario un cavo idoneo (non in dotazione).
*8 Modulo GPS per AV Center (XA-NV300T) (non in dotazione).

XAV-602BT

English

Precautions

- Choose the installation location carefully so that the unit will not interfere with normal driving operations.
- Avoid installing the unit in areas subject to dust, dirt, excessive vibration, or high temperature, such as in direct sunlight or near heater ducts.
- Use only the supplied mounting hardware for a safe and secure installation.
- To move the front panel smoothly, to insert/eject a disc easily, and especially to drive safely, keep an adequate distance between the front panel and the shift lever. The necessary distance differs, depending on the shift lever position of your car. Before installing the unit, choose the installation location carefully so that you can drive safely.

Mounting angle adjustment

Adjust the mounting angle to less than 45°.

Connecting the parking brake lead 3

Be sure to connect the parking brake lead (light green) of the power supply connection cable ③ to the parking brake switch cord.

Installing the microphone 4

To capture your voice during handsfree calling, you need to install the microphone ⑦.

Cautions
- Keep the microphone away from extremely high temperatures and humidity.
- It is extremely dangerous if the cord becomes wound around the steering column or gearstick. Be sure to keep it and other parts from obstructing your driving.
- If airbags or any other shock-absorbing equipment is in your car, contact the store where you purchased this unit, or the car dealer, before installation.

Notes
- Before attaching the double-sided tape ⓑ, clean the surface of the dashboard with a dry cloth.
- Adjust the microphone angle to the proper position.

How to detach and attach the front panel 5

Before installing the unit, detach the front panel.

5-A To detach

Before detaching the front panel, press and hold OFF for more than 2 seconds to turn off the unit. Press ⏏, and then hold the left side of the front panel and pull it open to the right.

Tip
If you also lift the left side of the front panel slightly ❶, the front panel comes out easily.

5-B To attach

Place the recesses Ⓐ of the front panel onto the pegs Ⓑ on the unit, then lightly push the left side in.

Removing the bracket 6

Before installing the unit, remove the bracket ① from the unit.
Keep the release keys ② for future use as they are also necessary if you remove the unit from your car.

Caution
Handle the bracket ① carefully to avoid injuring your fingers.

1. **Insert the release keys ② into the catches between the unit and the bracket ① at the same time until they click.**
2. **Pull down the bracket ①, then pull up the unit to separate them.**

Mounting the unit 7

7-A Mounting the unit with the supplied bracket

1. **Before installing, make sure that the catches on both sides of the bracket ① are bent inwards 3.5 mm.**
2. **Position the supplied bracket ① inside the dashboard.**
3. **Bend the claws outward for a tight fit.**
4. **Mount the unit onto the supplied bracket ①.**

Note
If the catches are straight or bent outwards, the unit will not be installed securely and may spring out.

7-B Mounting the unit in a Japanese car

You may be able to install this unit in some makes of Japanese cars without the supplied bracket. If you cannot, consult your Sony dealer.

When mounting this unit to the preinstalled brackets of your car, use the supplied screws ⑥ in the appropriate screw holes, based on your car: T for TOYOTA, M for MITSUBISHI and N for NISSAN.

Notes
- To avoid a malfunction, install only with the supplied screws ⑥.
- Do not apply excessive force to the buttons of the unit.
- Do not press on the LCD.
- Before mounting, make sure there is nothing on the top of the unit.

Warning if your car's ignition has no ACC position

Be sure to set the Auto OFF function. For details, refer to the supplied "Operating Instructions."
The unit will shut off completely and automatically in the set time when no source is selected, which prevents battery drainage.
If the Auto OFF function has not been set, press and hold OFF until the display disappears each time you turn the ignition off.

Reset button 8

When the installation and connections are completed, be sure to press the reset button, which is located behind the front panel, with a ballpoint pen, etc.

Fuse replacement 9

When replacing the fuse, be sure to use one matching the amperage rating stated on the original fuse. If the fuse blows, check the power connection and replace the fuse. If the fuse blows again after replacement, there may be an internal malfunction. In such a case, consult your nearest Sony dealer.

Power connection diagram 10

The auxiliary power connector may vary depending on your car. Check your car's auxiliary power connector diagram to make sure the connections match correctly. There are three basic types (10-A, 10-B, 10-C). You may need to switch the positions of the red and yellow leads of the unit's power supply connection cable ③. After matching the connections and switched power supply leads correctly, connect the unit to the car's power supply. If you have any questions and problems connecting your unit that are not covered in these instructions, please consult your car dealer.

Español

Precauciones

- Elija cuidadosamente el lugar de montaje de forma que la unidad no interfiera con las funciones normales de conducción.
- Evite instalar la unidad donde pueda quedar sometida a polvo, suciedad, vibraciones excesivas o altas temperaturas como, por ejemplo, a la luz solar directa o cerca de conductos de calefacción.
- Para realizar una instalación segura y firme, utilice solamente los componentes de montaje suministrados.
- Para poder mover el panel frontal sin problemas, insertar o expulsar un disco fácilmente y, en especial, para garantizar una conducción segura, es necesario dejar una distancia adecuada entre el panel frontal y la palanca de cambio. La distancia necesaria varía en función de la posición de la palanca de cambios del vehículo. Antes de instalar la unidad, seleccione cuidadosamente una ubicación de instalación para asegurarse de que puede conducir con seguridad.

Ajuste del ángulo de montaje

Ajuste el ángulo de montaje a menos de 45°.

Conexión del cable del freno de mano 3

Asegúrese de conectar el cable del freno de mano (de color verde claro) del cable de suministro de alimentación ③ al cable del interruptor del freno de mano.

Instalación del micrófono 4

Para capturar su voz durante las llamadas con manos libres, es necesario instalar el micrófono ⑦.

Precauciones
- Mantenga el micrófono alejado de lugares con humedad y temperaturas muy altas.
- Que el cable se enrolle alrededor de la columna de dirección o de la palanca de cambios es extremadamente peligroso. Asegúrese de impedir que el cable y otros componentes obstruyan la conducción.
- Si el vehículo dispone de airbags u otros dispositivos de amortiguación de impactos, póngase en contacto con el establecimiento donde ha adquirido esta unidad o con el concesionario de automóviles antes de llevar a cabo la instalación.

Notas
- Antes de colocar la cinta adhesiva de doble cara ⓑ, limpie la superficie del salpicadero con un paño seco.
- Ajuste el ángulo del micrófono en la posición adecuada.

Forma de extraer e instalar el panel frontal 5

Antes de instalar la unidad, extraiga el panel frontal.

5-A Para extraerlo

Antes de desconectar el panel frontal, mantenga pulsado OFF durante más de 2 segundos para apagar la unidad. Pulse ⏏. Después, sujete el panel frontal por el lado izquierdo y ábralo hacia la derecha.

Sugerencia
Si también levanta ligeramente el lado izquierdo del panel frontal ❶, la extracción es más sencilla.

5-B Para instalarlo

Coloque los orificios Ⓐ del panel frontal en los salientes Ⓑ de la unidad y, a continuación, realice una ligera presión en el lado izquierdo para insertar el panel.

Extracción del soporte 6

Antes de instalar la unidad, extraiga el soporte ① de la unidad.
Guarde las llaves de liberación ② para utilizarlas en el futuro, ya que también son necesarias para extraer la unidad del vehículo.

Precaución
Tenga mucho cuidado al manipular el soporte ① para evitar posibles lesiones en los dedos.

1. **Inserte las llaves de liberación ② en los enganches entre la unidad y el soporte ① al mismo tiempo hasta que escuche un clic.**
2. **Presione el soporte ① y, a continuación, levante la unidad para separar ambos elementos.**

Montaje de la unidad 7

7-A Montaje de la unidad con el soporte suministrado

1. **Antes de instalar la unidad, compruebe que los enganches de ambos lados del soporte ① están doblados hacia adentro 3,5 mm.**
2. **Coloque el soporte suministrado ① dentro del salpicadero.**
3. **Doble los ganchos hacia fuera para conseguir una fijación segura.**
4. **Monte la unidad en el soporte suministrado ①.**

Nota
Si los enganches están rectos o doblados hacia afuera, la unidad no se instalará correctamente y puede saltar.

7-B Montaje de la unidad en un vehículo japonés

Es posible que pueda instalar esta unidad en algunos vehículos de marcas japonesas sin necesidad de utilizar el soporte suministrado. En caso de que no pueda, póngase en contacto con el distribuidor de Sony.

Para montar esta unidad en los soportes preinstalados del vehículo, utilice los tornillos ⑥ suministrados en los orificios para tornillos correspondientes en función de su automóvil: T corresponde a TOYOTA, M a MITSUBISHI y N a NISSAN.

Notas
- Para evitar fallos de funcionamiento, realice la instalación únicamente con los tornillos suministrados ⑥.
- No ejerza presión excesiva sobre los botones de la unidad.
- No ejerza presión sobre la pantalla de cristal líquido.
- Antes de efectuar el montaje, asegúrese de que no haya ningún objeto en la parte superior de la unidad.

Advertencia: si el encendido del vehículo no dispone de una posición ACC

Configure la función Auto DESACTIVAR. Para obtener información, consulte el "Manual de instrucciones" suministrado.
La unidad se apagará del todo automáticamente en el tiempo establecido si no hay ninguna fuente seleccionada, lo que evita que se desgaste la batería.
Si no ha ajustado la función Auto DESACTIVAR, mantenga pulsado OFF cada vez que apague el interruptor de encendido, hasta que la pantalla desaparezca.

Botón de reinicio 8

Una vez finalizadas la instalación y las conexiones, asegúrese de presionar el botón de reinicio (situado detrás del panel frontal) con un bolígrafo, etc.

Sustitución del fusible 9

Al sustituir el fusible, asegúrese de utilizar uno cuyo amperaje coincida con el especificado en el original. Si el fusible se funde, verifique la conexión de alimentación y sustitúyalo. Si el fusible vuelve a fundirse después de sustituirlo, es posible que exista algún fallo de funcionamiento interno. En tal caso, consulte con el distribuidor Sony más cercano.

Diagrama de conexión de la alimentación 10

El conector de alimentación auxiliar puede variar según el vehículo. Consulte el diagrama de conexión de la alimentación auxiliar del vehículo para asegurarse de que realiza las conexiones correctamente. Hay tres tipos básicos de diagramas (10-A, 10-B, 10-C). Es posible que deba intercambiar las posiciones de los cables rojo y amarillo del cable de suministro de alimentación de la unidad ③. Una vez que haya realizado las conexiones de los cables de la fuente de alimentación conmutada correctamente, conecte la unidad a la alimentación del vehículo. Si desea realizar alguna consulta o solucionar algún problema relativo a la conexión de la unidad que no se trate en este manual, póngase en contacto con el concesionario en el que ha adquirido el vehículo.

Italiano

Precauzioni

- Scegliere con attenzione la posizione per l'installazione in modo che l'apparecchio non interferisca con le operazioni di guida del conducente.
- Evitare di installare l'apparecchio dove sia soggetto ad alte temperature, come alla luce solare diretta o al getto di aria calda dell'impianto di riscaldamento, o dove possa essere soggetto a polvere, sporcizia e vibrazioni eccessive.
- Usare solo il materiale di montaggio in dotazione per un'installazione stabile e sicura.
- Per spostare agevolmente il pannello anteriore, per inserire/estrarre facilmente il disco e soprattutto per garantire una guida sicura, mantenere una distanza adeguata tra il pannello anteriore e la leva del cambio. La distanza necessaria varia in base alla posizione della leva del cambio dell'auto. Prima di installare l'apparecchio, scegliere con attenzione la posizione per l'installazione in modo che le operazioni di guida risultino sicure.

Regolazione dell'angolo di montaggio

Regolare l'angolo di montaggio in modo che sia inferiore a 45°.

Collegamento del cavo del freno a mano 3

Assicurarsi di collegare il cavo del freno a mano (verde chiaro) del cavo di collegamento dell'alimentazione ③ al cavo di commutazione del freno a mano.

Installazione del microfono 4

Per catturare la voce durante le chiamate in vivavoce, è necessario installare il microfono ⑦.

Attenzione
- Non sottoporre il microfono a temperature ed umidità eccessivamente elevate.
- Se il cavo rimane avvolto al piantone di guida o alla leva del cambio, possono verificarsi situazioni di pericolo. Accertarsi di posizionare il cavo e altre parti in modo che non ostruiscano la guida.
- Se nell'auto sono presenti air-bag o altri dispositivi di assorbimento degli urti, prima dell'installazione contattare il negozio in cui è stato acquistato l'apparecchio o l'autoconcessionario.

Note
- Prima di applicare il nastro biadesivo ⓑ, pulire la superficie del cruscotto con un panno asciutto.
- Regolare l'angolazione del microfono sulla posizione corretta.

Come rimuovere e reinserire il pannello anteriore 5

Prima di installare l'apparecchio rimuovere il pannello anteriore.

5-A Per rimuoverlo

Prima di scollegare il pannello anteriore, tenere premuto OFF per più di 2 secondi per spegnere l'unità. Premere ⏏, quindi tenere fermo il lato sinistro del pannello anteriore ed estrarlo dal lato destro.

Suggerimento
Sollevando leggermente il lato sinistro del pannello anteriore ❶, l'estrazione risulta più facile.

5-B Per reinserirlo

Posizionare i fori Ⓐ del pannello anteriore sui supporti Ⓑ dell'unità, quindi premere leggermente il lato sinistro.

Rimozione della staffa 6

Prima di installare l'apparecchio, rimuovere la staffa ① dall'apparecchio.
Conservare le chiavette di rilascio② per un uso futuro in quanto sono necessarie per rimuovere l'apparecchio dall'auto.

Attenzione
Maneggiare la staffa ① con cautela per evitare di ferirsi le mani.

1. **Inserire le chiavette di rilascio② nei fermi tra l'apparecchio e la staffa ① contemporaneamente fino a che non scattano in posizione.**
2. **Estrarre la staffa ①, quindi sollevare l'apparecchio per rimuoverlo.**

Montaggio dell'apparecchio 7

7-A Montare l'apparecchio utilizzando la staffa in dotazione

1. **Prima di installare l'apparecchio, accertarsi di ripiegare i fermi presenti su entrambi i lati della staffa ① verso l'interno di 3,5 mm.**
2. **Installare la staffa in dotazione ① nel cruscotto.**
3. **Piegare i morsetti verso l'esterno per un'applicazione più stabile.**
4. **Montare l'apparecchio sulla staffa in dotazione ①.**

Nota
Se i fermi sono diritti o ripiegati verso l'esterno, l'apparecchio non verrà installato in modo sicuro e potrebbe fuoriuscire.

7-B Montaggio in un'auto giapponese

È possibile installare il presente apparecchio in alcuni tipi di auto giapponesi senza utilizzare la staffa in dotazione. In caso contrario, rivolgersi al rivenditore Sony autorizzato.

Durante il montaggio del presente apparecchio sulle staffe preinstallate dell'auto, inserire le viti in dotazione ⑥ negli appositi fori, in base al modello dell'auto: T per TOYOTA, M per MITSUBISHI e N per NISSAN.

Note
- Effettuare l'installazione utilizzando esclusivamente le viti in dotazione ⑥, onde evitare problemi di funzionamento.
- Non applicare forza eccessiva sui tasti dell'apparecchio.
- Non premere sullo schermo LCD.
- Prima del montaggio, accertarsi che sulla parte superiore dell'apparecchio non vi sia alcun oggetto.

Avvertenza relativa all'installazione su un'auto sprovvista della posizione ACC (accessoria) sul blocchetto di accensione

Accertarsi di impostare la funzione Spegnimento automatico. Per ulteriori informazioni, consultare le "Istruzioni per l'uso" in dotazione.
L'apparecchio si spegne completamente e automaticamente all'ora impostata quando non è selezionata alcuna sorgente, onde evitare che la batteria si scarichi.
Se la funzione Spegnimento automatico non è stata impostata, ogni volta che il motore viene spento tenere premuto OFF finché il display non viene disattivato.

Tasto di azzeramento 8

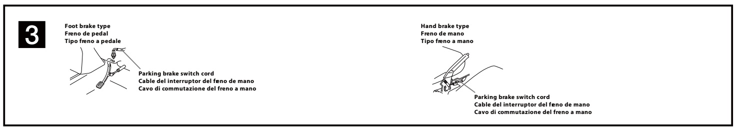
Una volta completate le procedure di installazione e i collegamenti, accertarsi di premere il tasto di azzeramento, situato dietro il pannello anteriore, con una penna a sfera o un oggetto simile.

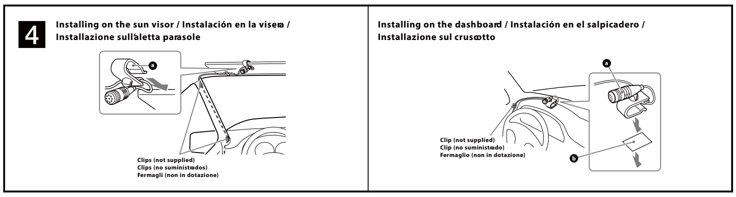
Sostituzione del fusibile 9

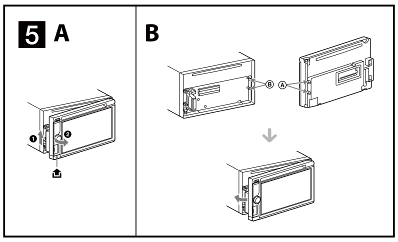
Per la sostituzione del fusibile, assicurarsi di utilizzare un fusibile dello stesso amperaggio di quello indicato sull'originale. Se il fusibile si brucia, controllare i collegamenti dell'alimentazione e sostituire il fusibile. Se dopo la sostituzione il fusibile si brucia di nuovo, è possibile che si tratti di un problema interno. In tal caso, rivolgersi al più vicino rivenditore Sony.

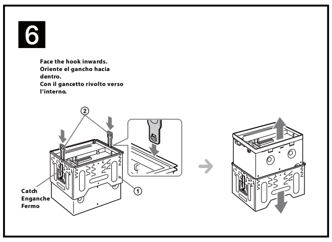
Diagramma dei collegamenti di alimentazione 10

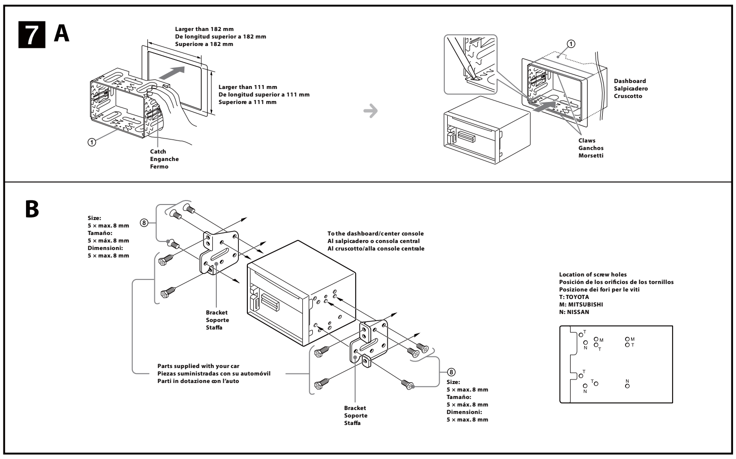
Il connettore di alimentazione ausiliaria può variare a seconda della macchina. Controllare il diagramma del connettore di alimentazione ausiliaria dell'auto per assicurarsi che i collegamenti corrispondano correttamente. Vi sono tre tipi di base (10-A, 10-B, 10-C). Potrebbe essere necessario cambiare le posizioni dei fili rosso e giallo del cavo di collegamento dell'alimentazione dell'apparecchio ③. Dopo aver fatto corrispondere i collegamenti e aver commutato correttamente i cavi di alimentazione, collegare l'apparecchio all'alimentazione della macchina. In caso di domande o se sorgono problemi relativi al collegamento dell'apparecchio che non sono stati trattati nel presente manuale, contattare l'autoconcessionario.

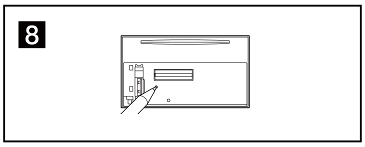


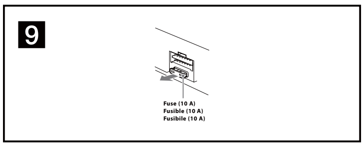


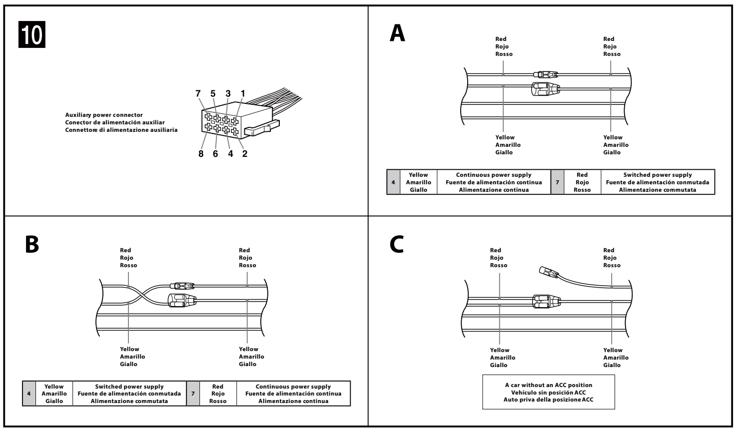












(Russian model)

Русский

Внимание

- **Подведите все провода заземления к одной точке заземления.**
- Данное устройство предназначено то лько для работы с источниками питания постоянного тока 12 В с отрицательным заземлением.
- Запрещается разбирать либо вносить изменения в устройство.
- Запрещается устанавливать устройство в местах, где оно будет мешать раскрытию по душек безопасности.
- Не допускайте попадания прово дов под винты или между подвижными частями (например, направляющими сидений).
- Перед подсоединением прово дов выключите зажигание автомобиля во избе жание короткого замыкания.
- Сначала подключите кабель электропитания ⑧ к устройству и динамикам, а потом к дополнительному разъему питания.
- В целях безопасности обязательно изолируйте все неподсоединенные провода изоляционной лентой.
- При установке устройства не надавливайте на ЖК-дисплей.
- Монитор устройства должен быть направлен строго вперед; не устанавливайте устройство под углом.

Примечания относительно провода питания (желтый)
- При подключении устройства вместе с другими компонентами стереосистемы номинальное значение силы тока в электрической цепи автомобиля, к которой подключается устройство, должно быть выше, чем суммарное значение номинальной силы тока предохранителей всех компонентов.
- Если номинальное значение силы тока в электрической цепи автомобиля недостаточно высокое, подсоедините устройство напрямую к аккумулятору.

Схема подключения 2

❶ **Ко входу AMP REMOTE IN дополнительного усилителя**
Этот вариант подключения используется только для усилителей. Подключение любой другой системы может привести к повреждению устройства.

❷ **К шнуру выключателя стояночного тормоза**
Размещение шнура выключателя стояночного тормоза зависит от марки автомобиля. Подробнее см. в разделе "Подключение провода стояночного тормоза (5)" на обороте.

Ⓐ **К дополнительному устройству, такому как переносной медиаплеер, игровая консоль и т. п. (не прилагается)**
Совет
Для подключения дополнительных устройств можно использовать кабель с разъемами RCA (не прилагается).

Ⓑ **К разъему питания +12 В заднего фонаря автомобиля (только при подключении камеры заднего вида)**

Внимание

При использовании антенны с электрическим приводом без релейного блока подключение этого устройства посредством прилагаемого кабеля электропитания ⑧ может привести к повреждению антенны.

Провода управления и питания
- При включении тюнера, а также использовании функции AF (Альтернативные частоты) или TA (Сообщения о текущей ситуации на дорогах) по управляющему выводу антенны с электроприводом (синему) подается напряжение +12 В постоянного тока.
- Если машина оснащена радиоантенной FM/MW/LW, встроенной в заднее или боковое стекло, подсоедините управляющий вывод антенны с электроприводом (синий) или дополнительный вывод питания (красный) к разъему питания усилителя антенны. Для получения подробных сведений обратитесь к своему автомобильному дилеру.
- Антенна с электроприводом, не снабженная релейным блоком, с этим устройством использоваться не может.

Подключение памяти
Когда к устройству подсоединен желтый электрический провод, блок памяти будет постоянно получать питание даже при выключенном зажигании.

Подключение динамиков
- Прежде чем подключать динамики, выключите устройство.
- Во избежание повреждений используйте динамики с полным сопротивлением 4–8 Ом и соответствующей мощностью.
- Не подключайте динамики к шасси автомобиля и не соединяйте разъемы правых динамиков с разъемами левых динамиков.
- Не подключайте вывод заземления устройства к отрицательному (–) разъему динамика.
- Не подключайте динамики параллельно.
- Используйте только пассивные динамики. Подключение активных динамиков (со встроенным усилителем) к гнездам для динамиков может привести к повреждению устройства.
- Во избежание неполадок не используйте уже имеющуюся в автомобиле проводку для громкоговорителей, если она имеет общий отрицательный провод (–) для правого и левого динамиков.
- Не подсоединяйте провода динамиков устройства друг к другу.

Подключение
- Если на дисплее появилась надпись [Проверить подключ. аудиовыхода], проверьте правильность подсоединения динамика и усилителя.
- Если используется монитор для задних сидений, подсоедините шнур выключателя стояночного тормоза к заземлению.

Українська

Увага!

- **Підключіть усі проводи заземлення до однієї точки заземлення.**
- Цей пристрій розроблено лише для роботи від джерела живлення постійного струму з напругою 12 В і негативним заземленням.
- Не розбирайте пристрій і не змінюйте його конструкції.
- Не встановлюйте його в місцях, де він заважатиме розкриттю повітряної подушки.
- Уникайте потрапляння проводів під гвинти або між рухомими деталями (наприклад, між напрямними сидінь).
- Перед підключенням вимкніть запалювання автомобіля, щоб уникнути короткого замикання.
- Спочатку підключіть з'єднувальний кабель живлення ⑧ до пристрою й динаміків, а потім — до додаткового роз'єму живлення.
- З міркувань безпеки обов'язково ізолюйте всі оголені непідключені проводи ізоляційною стрічкою.
- Не натискайте на РК-дисплей під час встановлення пристрою.
- Встановіть пристрій так, щоб монітор був спрямований прямо; не встановлюйте його під кутом.

Примітки щодо шнура живлення (жовтого)
- Якщо цей пристрій підключається разом з іншими стереокомпонентами, максимально дозволена сила струму в електромережі автомобіля, до якої підключається пристрій, має бути вищою за суму значень сили струму для запобіжників кожного компонента.
- Якщо в електромережі автомобіля максимально дозволена сила струму недостатня, підключіть пристрій безпосередньо до акумулятора.

Схема підключення 2

❶ **До входу AMP REMOTE IN додаткового підсилювача потужності**
Це підключення призначено лише для підсилювачів. Підключення будь-якої іншої системи може пошкодити пристрій.

❷ **До шнура вимикача стоянкового гальма**
Місце кріплення шнура вимикача стоянкового гальма залежить від автомобіля. Докладніше див. у розділі «Підключення шнура стоянкового гальма (5)» на зворотній стороні.

Ⓐ **До додаткового пристрою, наприклад до портативного мультимедійного програвача, ігрової приставки тощо (не входить до комплекту постачання)**
Порада
Для підключення додаткових пристроїв можна використовувати шнур із роз'ємами RCA (не входить до комплекту постачання).

Ⓑ **До роз'єму живлення +12 В проводу задньої лампи автомобіля (тільки в разі підключення камери заднього огляду)**

Попередження

Якщо використовується антена з електроприводом без блоку релейного керування, підключення цього пристрою за допомогою з'єднувального кабелю живлення ⑧ з комплекту постачання може призвести до пошкодження антени.

Примітки щодо проводів керування та шнурів живлення
- Коли вмикається тюнер або використовується функція AF (Альтернативні частоти) чи TA (Повідомлення про ситуацію на дорогах), через провід керування антени з електроприводом (синій) подається напруга +12 В постійного струму.
- Якщо автомобіль обладнано антеною FM/MW/LW, вбудованою в заднє або бокове скло, підключіть провід керування антени з електроприводом (синій) або додатковий шнур живлення (червоний) до роз'єму живлення підсилювача антени. Для отримання докладніших відомостей зверніться до свого продавця автомобілів.
- Антену з електроприводом без блоку релейного керування не можна використовувати з цим пристроєм.

Підключення запам'ятовуючої системи
Якщо підключено жовтий шнур живлення, живлення завжди постачатиметься до блоку пам'яті, навіть якщо вимкнено запалення.

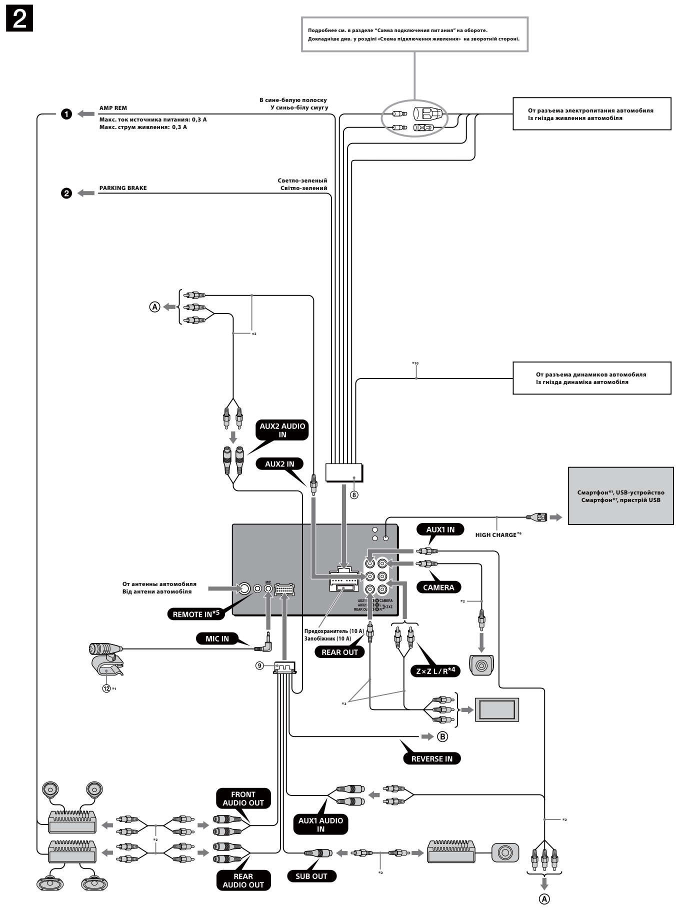
Примітки щодо підключення динаміків
- Перш ніж підключати динаміки, вимкніть пристрій.
- Щоб уникнути пошкодження, використовуйте динаміки при повному опорі 4–8 Ом і при допустимих потужностях.
- Не підключайте роз'єми динаміків до корпуса автомобіля та не з'єднуйте роз'єми правого й лівого динаміків.
- Не підключайте провід заземлення пристрою до негативного (–) роз'єму динаміка.
- Не намагайтеся підключити динаміки паралельно.
- Підключайте лише пасивні динаміки. Підключення активних динаміків (із вбудованими підсилювачами) до гнізд динаміків може призвести до пошкодження пристрою.
- Щоб уникнути несправностей, не використовуйте вбудовані в автомобіль проводи для динаміків, якщо використовується спільний негативний (–) провід для лівого та правого динаміків.
- Не з'єднуйте проводи динаміків пристрою між собою.

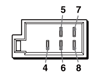
Примітки щодо підключення
- Якщо на дисплеї з'явилося повідомлення [Проверить подключ. аудиовыхода], перевірте, чи правильно підключено динамік і підсилювач.
- Якщо використовується монітор для задніх сидінь, підключіть шнур вимикача стоянкового гальма до заземлення.

Оборудование, фигурирующее на иллюстрациях (не прилагается) / Обладнання, зображене на ілюстраціях (не входить до комплекту постачання)



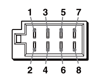
2





4	Желтый Жовтий	Постоянный ток Постійний струм
5	Синий Синій	Управление антенной с электрическим приводом Керування антеною з електроприводом
6	Оранжево-белый Оранжевий/білий	Вторичная цепь подсветки Живлення для підсвічування, що вимикається
7	Красный Червоний	Ток вторичной цепи Струм вторинного ланцюга
8	Черный Чорний	Заземление Заземлення

Позиции 1, 2 и 3 без штекеров.
У позиціях 1,2 і 3 не використовуються штирки.



1	Фиолетовый Пурпуровий	+	Динамик, задний, правый Динамік, задній правий
2–			Динамик, задний, правый Динамік, задній правий
3	Серый Сірий	+	Динамик, передний, правый Динамік, передній правий
4–			Динамик, передний, правый Динамік, передній правий
5	Белый Білий	+	Динамик, передний, левый Динамік, передній лівий
6–			Динамик, передний, левый Динамік, передній лівий
7	Зеленый Зелений	+	Динамик, задний, левый Динамік, задній лівий
8–			Динамик, задний, левый Динамік, задній лівий

Для позиций отрицательной полярности 2, 4, 6 и 8 используются провода в полоску.
До позицій із негативною полярністю 2, 4, 6 і 8 прикріплено смугасті проводи.

*1 Подробнее о подключении микрофона см. в разделе "Установка микрофона (6)" на обороте.
*2 Шнур с разъемами RCA (не прилагается).
*4 Вывод звукового сигнала через этот разъем осуществляется только при включенном режиме ZONE × ZONE. Уровень сигнала постоянный, независимо от уровня громкости устройства.
*5 Может понадобиться отдельный адаптер.
*6 Задний кабель USB с маркировкой "HIGH CHARGE" рекомендуется использоваться для подзарядки аккумулятора подключенного устройства.
*7 Для подключения смартфона к основному устройству требуется соответствующий кабель (не прилагается).
*10 Полное сопротивление динамиков: 4–8 Ом × 4.

*1 Докладніше про встановлення мікрофона див. у розділі «Встановлення мікрофона (6)» на зворотній стороні.
*2 Шнур із роз'ємами RCA (не входить до комплекту постачання)
*4 Звук подається через цей роз'єм, тільки якщо активовано функцію ZONE × ZONE. Через цей роз'єм виводиться звук із фіксованим рівнем гучності незалежно від гучності, встановленої на пристрої.
*5 Може вимагатися окремий адаптер.
*6 Для заряджання акумулятора підключеного пристрою рекомендується використовувати задній USB-кабель із написом «HIGH CHARGE».
*7 Для підключення смартфону до основного пристрою вимагається відповідний кабель (не входить до комплекту постачання).
*10 Повний опір динаміків: 4–8 Ом × 4

XAV-602BT

Русский

Меры предосторожности

- Место для установки устройства выбирайте тщательно, чтобы оно не мешало управлению автомобилем.
- Не устанавливайте устройство там, где оно будет подвержено воздействию пыли, грязи, повышенной вибрации или выс оких температур, например в местах, попадающих по д прямые солнечные лучи или нахо дящихся вблизи вентиляционных решеток обогревателей.
- Для обеспечения наде жной и безопасной установки используйте лишь входящие в комплект крепления.
- Для беспрепят ственного подсоединения или отсоединения передней панели, вставки и выемки компакт-дисков, а особенно д ля безопасного вождения, обеспечьте достаточное расстояние ме жду передней панелью и рычаг ом переключения передач. Это расстояние зависит от положения рычага переключения передач в автомобиле. Прежде чем устанавливать устройство, тщательно выберите место установки, чтобы обеспечить безопасность вождения.

Допустимый угол установки

Установите устройство под углом не бо лее 45°.

Иллюстрации

Если не указано иное, модель XAV-602BT используется исключительно в иллюстративных целях.

Подключение провода стояночного тормоза 5

Обязательно по дсоедините провод стояночного тормоза (светло-зеленый) на с оединительном кабеле питания ⑧ к шнуру выключателя стояночного тормоза.

Установка микрофона 6

Для общения в ре жиме громк ой связи необхо димо установить микрофон ⑫.

Внимание
- Не подвергайте микрофон во здействию выс оких температур и влажности.
- Чрезвычайную опасность представляет закручивание шнура вокруг колонки рулевого управления или рычаг а переключения передач. Не допускайте того, чтобы шнур или другие компоненты препят ствовали управлению автомобилем.
- Если автомобиль оснащен во здушными подушками безопасности или другим амортизационным обору дованием, перед установкой данного устройства обратитесь к дилеру Son y, у которого было приобретено изделие, или своему автомобильному дилер у.

Примечания
- Перед нанес ением двусторонней клейк ой ленты ⓑ очистите поверхность панели приборов сухой тканью.
- Установите микрофон по д соответствующим уг лом.

Снятие и установка передней панели 7

Перед установкой устройства снимите переднюю панель.

7-A Снятие

Прежде чем снять переднюю панель, нажмите и удерживайте кнопку OFF не менее 2 с екунд, чтобы отключить устройство. Нажмите кнопку ⏏, а затем, удерживая левую сторону панели, отсоедините ее, потянув направо.

Совет
Если слегка припо днять левую сторону передней панели ❶, она легко отсоединит ся.

7-B Установка

Совместите углубления Ⓐ на передней панели с выступами Ⓑ на устройстве, затем слегка вдавите левый край передней панели.

Отсоединение кронштейна 8

Перед установкой устройства отсоедините от него кронштейн ①.
Сохраните ключи для демонтажа ② на случай необходимости замены устройства в будущем.

Осторожно
Снимайте кронштейн ① осторожно, чтобы не повредить пальцы.

1. **Вставьте одновременно до щелчка оба ключа для демонтажа ② в отверстия фиксаторов между устройством и кронштейном ①.**
2. **Чтобы отделить устройство от кронштейна, потяните кронштейн ① вниз, а устройство — вверх.**

Примечание
Форма рамки и распо ложение фиксатора зависят о т модели устройства.

Установка устройства 10

10-A Установка устройства с помощью прилагаемого кронштейна

1. **Перед установкой убедитесь, что фиксаторы с обоих боков кронштейна ① вогнуты внутрь на 3,5 мм.**
2. **Установите прилагаемый кронштейн ① в панели приборов.**
3. **Отогните зажимы наружу д ля надежной фиксации.**
4. **Установите устройство в поставляемый кронштейн ①.**

Примечание
Если фиксаторы нахо дятся в прямом по ложении или выгнуты наружу, устройство не удастся наде жно установить, и оно м ожет выпасть.

10-B Установка устройства в японском автомобиле

В некоторых моделях японских автомобилей это устройство можно установить без испо льзования прилагаемог о кронштейна. Если вам не у дается это сделать, обратитесь за консультацией к дилеру Sony.

При монтаж е данного устройства в кронштейны, предварительно установленные в автомобиле, используйте прилаг аемые винты ⑩ в соответствующих о тверстиях в зависимости о т марки вашег о автомобиля: T для автомобилей TOYOTA, M для MITSUBISHI и N для NISSAN.

Примечания
- Во избежание неисправностей д ля установки используйте только прилагаемые винты ⑩.
- Не прикладывайте чрезмерных усилий к кнопкам устройства.
- Не надавливайте на ЖК -дисплей.
- Перед установкой убедитесь, что на верхней части устройства нет посторонних предметов.

Внимание! Если в замк е зажигания нет пол ожения ACC

Задайте ф ункцию автоматическ ого выключения "Таймер ВЫКЛ. ". Дополнительные сведения см. в прилагаемой инструкции по эксплуатации.
Если источник питания не выбран, устройство будет автоматически о тключено в установленное время, что предотвращает разрядку аккуму лятора.
Если функция "Таймер ВЫКЛ. " не задана, то при каждом выключении зажиг ания нажимайте и удерживайте кнопку OFF до тех пор, пока дисплей не погаснет.

Кнопка сброса 11

После завершения установки и по дключений обязательно нажмите кнопку сброса за передней панелью шарик овой ручкой или по добным инструментом.

Замена предо хранителей 12

При замене предохранителей обязательно используйте только те, которые соответствуют силе тока, указанной на оригинальном предохранителе. Если перегорел предохранитель, проверьте подключение питания и замените предохранитель. Если после замены предохранитель снова перегорел, это может означать неисправность устройства. В этом случае обратитесь к ближайшему дилеру Son y.

Схема подключения пит ания 13

Дополнительный разъем питания зависит о т модели автомобиля. Правильность подключения проверьте по схеме допо лнительного разъема питания автомобиля. Существует три основных типа разъемов (10-A, 10-B, 10-C). Возможно, потребуется поменять местами красный и ж елтый провода соединительног о кабеля питания ⑧ устройства. После правильног о выполнения соединений и по дключения прово дов тока вторичной цепи по дсоедините устройство к электропитанию автомобиля. В случае возникновения вопрос ов или проблем, связанных с подключением данног о устройства, которые не описаны в настоящем рук оводстве, обратитесь к ближайшему дилеру Son y.

Українська

Застережні заходи

- Уважно виберіть місце встановлення, щоб пристрій не заважав керувати автомобілем.
- Не встановлюйте пристрій у місцях, де утворюється пил, бруд, у місцях із надмірною вібрацією та високими температурами, наприклад під прямими с онячними променями або біля обігрівача.
- Задля безпечног о та надійного встановлення використовуйте лише обладнання д ля кріплення з комплекту постачання.
- Щоб легк о від'єднувати передню панель, виймати та вставляти диски, а особливо д ля безпечного керування забезпечте достатню відстань між передньою панеллю та важ елем перемикання передач. Необхідна відстань м оже бути різною — це залежить від положення важ еля перемикання передач в автомобілі. Перш ніж встановлювати пристрій, уважно виберіть місце встановлення, щоб мо жна було безпечно керувати автомобілем.

Вибір кута кріплення

Виберіть кут кріплення менше 45°.

Про ілюстрації

XAV-602BT — це модель, що використовується для ілюстрацій, якщо не вказано інше.

Підключення шнура стоянкового гальма 5

Обов'язк ово підключіть шнур стоянк ового гальма (світло-зелений) з'єднувальног о кабелю живлення ⑧ до шнура вимикача стоянк ового гальма.

Встановлення мікрофона 6

Щоб покращити якість звуку під час ро змов через цей пристрій, необхідно встановити мікрофон ⑫.

Увага!
- Не допускайте дії над звичайно вис оких температур і вологості на мікрофон.
- Якщо шнур поряд із кермовою колонкою або важелем перемикання передач пош кодиться, це становитиме над звичайну небезпеку. Переконайтеся, що шнури та інші деталі не заважаю ть водінню.
- Якщо у вашому автомобілі наявні повітряні подушки або інше амортизаційне обладнання, перед встановленням пристрою проконсультуйтесь із представником маг азину, у якому ви його придбали, або із продавцем автомобілів.

Примітки
- Перш ніж прикріпити двосторонню стрічку ⓑ, очистьте поверхню панелі приладів сухою тканиною.
- Налаштуйте по трібним чином кут нахилу мікрофона.

Від'єднання та приєднання передньої панелі 7

Перш ніж встановлювати пристрій, від'єднайте передню панель.

7-A. Від'єднання

Перш ніж від'єднати передню панель, вимкніть пристрій. Для цього натисніть і утримуйте кнопку OFF більше 2 секунд. Натисніть ⏏, а потім, утримуючи ліву сторону передньої панелі, відкрийте її, потягнувши праворуч.

Порада
Крім того, якщо злегка підняти ліву сторону передньої панелі ❶, вона легко від'єднається.

7-B. Приєднання

Накладіть заглиблення Ⓐ, розміщені на передній панелі, на виступи Ⓑ, розміщені на пристрої, а потім легко натисніть на ліву сторону, щоб установити її на місце.

Від'єднання кронштейна 8

Перед встановленням пристрою від'єднайте від нього кронштейн ①.
Збережіть демонтажні ключі ② на майбутнє, адже вони знадобляться в разі видалення пристрою з автомобіля.

Увага!
Поводьтеся із кронштейном ① обережно, щоб не поранити пальці.

1. **Одночасно вставте демонтажні ключі ② у фіксатори між пристроєм і кронштейном ① до клацання.**
2. **Натисніть на кронштейн ①, а потім потягніть пристрій, щоб роз'єднати їх.**

Примітка
Форма рамки д ля кріплення та ро зташування фіксатора мо жуть відрізнятися зале жно від мо делі.

Встановлення пристрою 10

10-A. Встановлення пристрою на кронштейн із комплекту постачання

1. **Перед встановленням перек онайтеся, що фіксатори на обох сторонах кронштейна ① нахилені всередину на 3,5 мм.**
2. **Положення кронштейна ① з комплекту постачання всередині панелі приладів.**
3. **Нахиліть виступи назовні задля тугої посадки.**
4. **Встановіть пристрій на кронштейн ① із комплекту постачання.**

Примітка
Якщо фіксатори ро зташовано вертикально або нахилено назовні, то пристрій встановлено ненадійно і він м оже випасти.

10-B. Встановлення пристрою в японський автомобіль

Цей пристрій мо жна встановлювати в деякі автомобілі японських марок без кронштейна з комплекту постачання. Якщо це немо жливо, зверніться до дилера Son y.

Якщо цей пристрій встановлюється на попередньо встановлені кронштейни автомобіля, закручуйте гвинти ⑩ у відповідні отвори зале жно від марки автомобіля: T для TOYOTA, M для MITSUBISHI та N для NISSAN.

Примітки
- Щоб уникнути несправностей, використовуйте лише гвинти з комплекту постачання ⑩.
- Не натискайте кнопки на пристрої з надмірним зусиллям.
- Не натискайте на РК-дисплей.
- Перед встановленням перек онайтеся, що зверху пристрою нічого немає.

Застереження для випадків, коли запалювання вашого автомобіля не має пол оження ACC

Обов'язк ово встановіть функцію Таймер ВЫКЛ. Докладніше див. в «Інструкціях з експлуатації» з комплекту постачання.
Якщо дж ерело не вибрано, пристрій вимкнеться повністю й автоматично в зазначений час. Це запобігає розрядж енню акуму лятора.
Якщо ф ункцію Таймер ВЫКЛ. не активовано, щоразу під час вимикання запалювання натискайте й утримуйте кнопку OFF, доки дисплей не зг асне.

Кнопка скидання 11

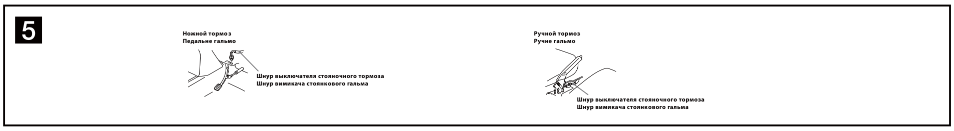
Після завершення встановлення та здійснення підключень обов'язк ово натисніть кнопку скидання, розташовану за передньою панеллю, кульковою ручкою тощо.

Заміна запобіжника 12

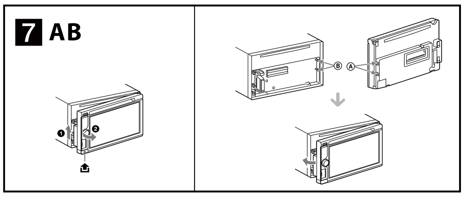
Замінюючи запобіжник, переконайтеся, що новий запобіжник ро зрахований на таку саму силу струму, як і оригінальний. Якщо запобіжник перегорає, перевірте підключення живлення та замініть запобіжник. Якщо запобіжник перег орає знову після заміни, причиною цьог о може бути внутрішня непо ладка. У такому разі зверніться до найближчог о дилера Son y.

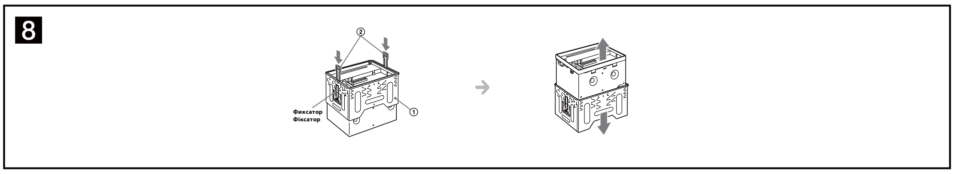
Схема підключення живлення 13

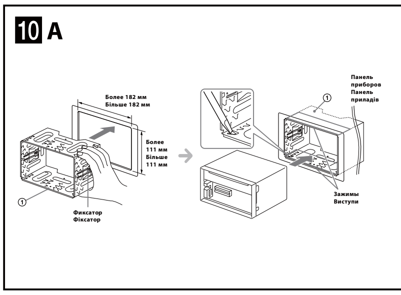
Додатковий роз'єм живлення м оже відрізнятися зале жно від автомобіля. Перегляньте схему д ля додаткового роз'єму живлення автомобіля та переконайтеся, що підключення здійснено відповідно до цієї схеми. Наявні три основні типи: 10-A, 10-B, 10-C. Може знадобитися змінити розташування червоног о й жовтого проводів з'єднувальног о кабелю живлення ⑧ пристрою. Виконавши підключення та змінивши розташування прово дів струму вторинного ланцюг а відповідним чином, підключіть пристрій до дж ерела живлення автомобіля. Якщо виникнуть запитання або проблеми з підключенням пристрою, не описані в наданих інструкціях, зверніться до свого продавця автомобілів.

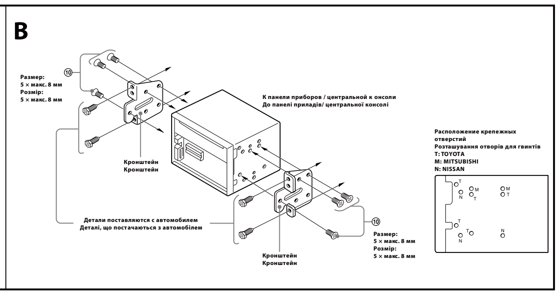


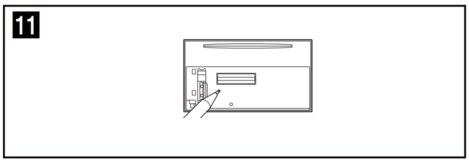


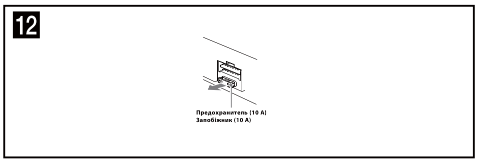


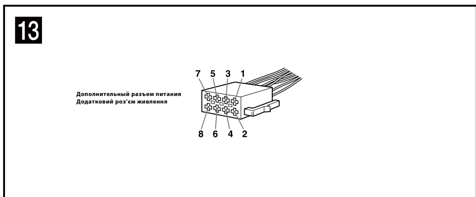


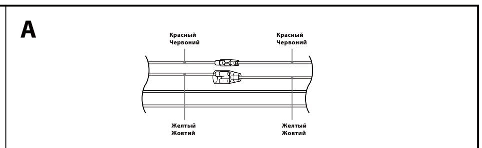




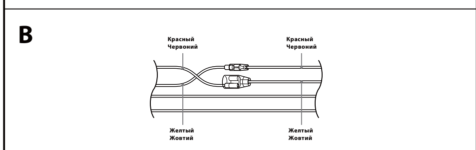




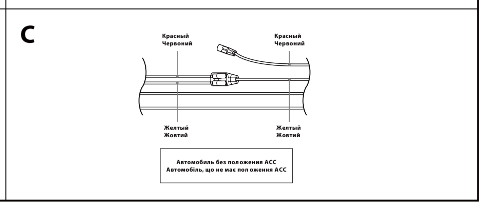




4	Желтый Жовтий	Постоянный ток Постійний струм	7	Красный Червоний	Ток вторичной цепи Струм вторинного ланцюга



4	Желтый Жовтий	Ток вторичной цепи Струм вторинного ланцюга	7	Красный Червоний	Постоянный ток Постійний струм



(E (NTSC) model)

English

Cautions

- **Run all ground (earth) leads to a common ground (earth) point.**
- This unit is designed for negative ground (earth) 12 V DC operation only.
- Do not disassemble or modify the unit.
- Do not install in locations which interfere with airbag operation.
- Do not get the leads under a screw, or caught in moving parts (e.g. seat railing).
- Before making connections, turn the car ignition off to avoid short circuits.
- Connect the **yellow** and **red** power supply leads only after all other leads have been connected.
- Be sure to insulate any loose unconnected leads with electrical tape for safety.
- Do not press on the LCD when installing the unit.
- Install the unit with the monitor facing straight forward; do not install it at a slanted angle.

Notes on the power supply lead (yellow)
- When connecting this unit in combination with other stereo components, the amperage rating of the car circuit to which the unit is connected must be higher than the sum of each component's fuse amperage rating.
- If no car circuits are rated high enough, connect the unit directly to the battery.

Connection diagram 2

❶ **To a common ground (earth) point**
First connect the black ground (earth) lead, then connect the yellow and red power supply leads.

❷ **To the power antenna (aerial) control lead or the power supply lead of the antenna (aerial) booster**

Notes
- It is not necessary to connect this lead if there is no power antenna (aerial) or antenna (aerial) booster, or with a manually-operated telescopic antenna (aerial).
- If your car has a built-in FM/AM antenna (aerial) in the rear/side glass, see "Notes on the control and power supply leads."

To AMP REMOTE IN of an optional power amplifier
This connection is only for amplifiers. Connecting any other system may damage the unit.

❸ **To a car's illumination signal**
Be sure to first connect the black ground (earth) lead to a common ground (earth) point.

❹ **To the +12 V power terminal which is energized when the ignition switch is set to the accessory position**

Notes
- If there is no accessory position, connect to the +12 V power (battery) terminal which is energized at all times.
  Be sure to first connect the black ground (earth) lead to a common ground (earth) point.
- If your car has a built-in FM/AM antenna (aerial) in the rear/side glass, see "Notes on the control and power supply leads."

❺ **To the +12 V power terminal which is energized at all times**
Be sure to first connect the black ground (earth) lead to a common ground (earth) point.

❻ **To the parking brake switch cord**
The mounting position of the parking brake switch cord depends on your car. For details, see "Connecting the parking brake lead (5)" on the reverse side.

Ⓐ **To an auxiliary device such as a portable media player, game console, etc. (not supplied)**

Tip
You can use an RCA pin cord (not supplied) to connect auxiliary devices.

Ⓑ **To the +12 V power terminal of the car's rear lamp lead (only when connecting the rear view camera)**

Notes on the control and power supply leads
- REM OUT lead (blue/white striped) supplies +12 V DC when you turn on the unit.
- If your car has built-in FM/AM antenna (aerial) in the rear/side glass, connect REM OUT lead (blue/white striped) or the accessory power supply lead (red) to the power terminal of the existing antenna (aerial) booster. For details, consult your dealer.
- A power antenna (aerial) without a relay box cannot be used with this unit.

Memory hold connection
When the yellow power supply lead is connected, power will always be supplied to the memory circuit even when the ignition switch is turned off.

Notes on speaker connection
- Before connecting the speakers, turn the unit off.
- Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities to avoid damage.
- Do not connect the speaker terminals to the car chassis, or connect the terminals of the right speakers with those of the left speakers.
- Do not connect the ground (earth) lead of this unit to the negative (–) terminal of a speaker.
- Do not attempt to connect the speakers in parallel.
- Connect only passive speakers. Connecting active speakers (with built-in amplifiers) to the speaker terminals may damage the unit.
- To avoid a malfunction, do not use the built-in speaker leads installed in your car if they feature a common negative (–) lead for the right and left speakers.
- Do not connect the unit's speaker leads to each other.

Notes on connection
- If [Check Audio Output Wiring] appears in the display, make sure the speaker and amplifier are connected correctly.
- To use the monitor for the rear seats, connect the parking brake switch cord to the ground (earth).

Español

Precauciones

- **Conecte todos los cables de conexión a masa a un punto común.**
- Esta unidad ha sido diseñada para alimentarse solamente con cc de 12 V de masa negativa.
- No desmonte ni modifique la unidad.
- No instale la unidad en lugares en los que interfiera con el funcionamiento del airbag.
- No coloque los cables debajo de ningún tornillo, ni los aprisione con partes móviles (p. ej. los raíles del asiento).
- Antes de realizar las conexiones, desactive el encendido del automóvil para evitar cortocircuitos.
- Conecte los cables de fuente de alimentación **amarillo** y **rojo** solamente después de haber conectado los demás.
- Por razones de seguridad, asegúrese de aislar con cinta aislante los cables sueltos que no estén conectados.
- No presione la pantalla LCD cuando instale la unidad.
- Al instalar la unidad, el monitor debe mirar hacia adelante; no la instale en un ángulo inclinado.

Notas sobre el cable de fuente de alimentación (amarillo)
- Cuando conecte esta unidad en combinación con otros componentes estéreo, la capacidad nominal del circuito conectado del automóvil debe ser superior a la suma del fusible de cada componente.
- Si no hay circuitos del automóvil con capacidad nominal suficientemente alta, conecte la unidad directamente a la batería.

Diagrama de conexiones 2

❶ **A un punto de conexión a masa común**
Conecte primero el cable de conexión a masa negro, y después los cables de fuente de alimentación rojo y amarillo.

❷ **Al cable de control de la antena motorizada o al cable de fuente de alimentación del amplificador de señal de la antena**

Notas
- Si no se dispone de antena motorizada ni de amplificador de señal de la antena, o se utiliza una antena telescópica accionada manualmente, no será necesario conectar este cable.
- Si el automóvil tiene una antena FM/AM integrada en el cristal posterior o lateral, consulte las "Notas sobre los cables de control y de fuente de alimentación".

A AMP REMOTE IN de un amplificador de potencia opcional
Esta conexión es sólo para amplificadores. La conexión de cualquier otro sistema puede dañar la unidad.

❸ **A una señal de iluminación del automóvil**
Asegúrese de conectar primero el cable de conexión a masa negro a un punto de conexión a masa común.

❹ **Al terminal de alimentación de +12 V que recibe energía cuando el interruptor de la llave de encendido se coloca en la posición de accesorio**

Notas
- Si no hay posición de accesorio, conéctelo al terminal de alimentación (batería) de +12 V querecibe energía sin interrupción.
  Asegúrese de conectar primero el cable de conexión a masa negro a un punto de conexión a masa común.
- Si el automóvil tiene una antena FM/AM integrada en el cristal posterior o lateral, consulte las "Notas sobre los cables de control y de fuente de alimentación".

❺ **Al terminal de alimentación de +12 V que recibe energía sin interrupción**
Asegúrese de conectar primero el cable de conexión a masa negro a un punto de conexión a masa común.

❻ **Al cable de conmutación del freno de estacionamiento**
La posición de montaje del cable de conmutación del freno de estacionamiento depende del automóvil. Para obtener detalles, vea la sección "Conexión del cable del freno de estacionamiento (5)" del lado reverso.

Ⓐ **A un dispositivo auxiliar, como, por ejemplo, un reproductor portátil, una consola de videojuegos, etc. (no suministrados)**

Sugerencia
Es posible utilizar el cable con terminales RCA (no suministrado) para conectar dispositivos auxiliares.

Ⓑ **Al terminal de alimentación de +12 V del cable del indicador posterior del automóvil (únicamente cuando conecte la cámara retrovisora)**

Notas sobre los cables de control y de fuente de alimentación
- El cable REM OUT (rayado azul y blanco) suministra cc +12 V al encender la unidad.
- Si el automóvil dispone de una antena de FM/AM incorporada en el cristal trasero o lateral, conecte el cable REM OUT (rayado azul y blanco) o el cable de fuente de alimentación auxiliar (rojo) al terminal de alimentación del amplificador de señal de la antena existente. Para obtener más detalles, consulte a su distribuidor.
- Con esta unidad no es posible utilizar una antena motorizada sin caja de relé.

Conexión para protección de la memoria
Si conecta el cable de fuente de alimentación amarillo, el circuito de la memoria recibirá siempre alimentación, aunque apague el interruptor de encendido.

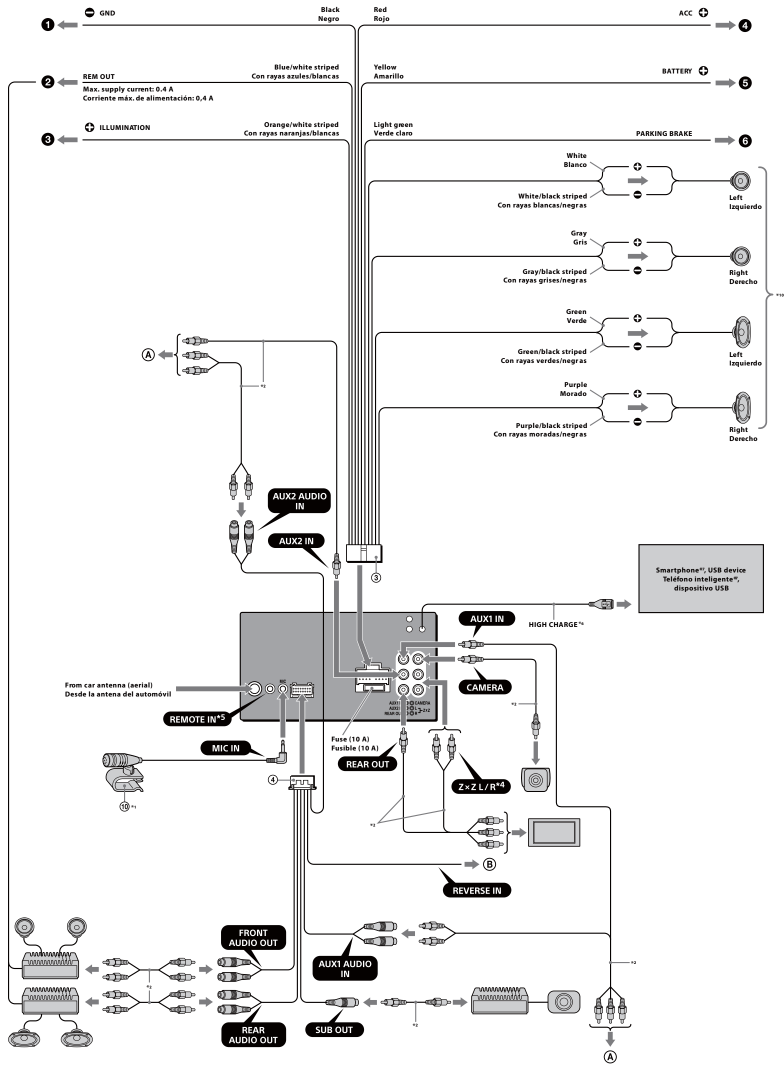
Notas sobre la conexión de los altavoces
- Antes de conectar los altavoces, desconecte la alimentación de la unidad.
- Utilice altavoces con una impedancia de 4 a 8 Ω con la capacidad de potencia adecuada para evitar que se dañen.
- No conecte los terminales de altavoz al chasis del automóvil ni conecte los terminales de altavoz derecho con los del izquierdo.
- No conecte el cable de conexión a masa de esta unidad al terminal negativo (–) del altavoz.
- No intente conectar los altavoces en paralelo.
- Conecte solamente altavoces pasivos. Si conecta altavoces activos (con amplificadores incorporados) a los terminales de altavoz, puede dañar la unidad.
- Para evitar fallas de funcionamiento, no utilice los cables de altavoz integrados instalados en el automóvil si la unidad comparte un cable negativo común (–) para los altavoces derecho e izquierdo.
- No conecte los cables de altavoz de la unidad entre sí.

Notas sobre la conexión
- Si en la pantalla aparece [Verifique el cableado de salida audio], verifique que el altavoz y el amplificador estén conectados correctamente.
- Si va a utilizar el monitor para los asientos posteriores, conecte el cable de conmutación del freno de estacionamiento a masa.

Equipment used in illustrations (not supplied) / Equipo utilizado en las ilustraciones (no suministrado)



2



*1 For details on installing the microphone, see "Installing the microphone (6)" on the reverse side.
*2 RCA pin cord (not supplied)
*4 The sound is output from this terminal only when ZONE × ZONE is activated. This terminal outputs a fixed level regardless of the volume control of the unit.
*5 A separate adaptor may be required.
*6 The USB rear cable labeled "HIGH CHARGE" is recommended to use for recharging the battery of a connected device.
*7 To connect a smartphone to the main unit, an appropriate cable (not supplied) is required.
*10 Speaker impedance: 4 – 8 ohms × 4

*1 Para obtener detalles sobre la instalación del micrófono, consulte "Instalación del micrófono (6)" al reverso.
*2 Cable con terminales RCA (no suministrado)
*4 El sonido se emitirá a través de este terminal sólo cuando esté activado ZONE × ZONE. Este terminal emite a un nivel fijo independientemente del control de volumen de la unidad.
*5 Puede requerirse un adaptador independiente.
*6 Se recomienda utilizar el cable posterior de USB denominado "HIGH CHARGE" para recargar la batería de un dispositivo conectado.
*7 Para conectar un teléfono inteligente a la unidad principal, es necesario utilizar un cable adecuado (no suministrado).
*10 Impedancia del altavoz: 4 – 8 Ω × 4

XAV-602BT

English

Precautions

- Choose the installation location carefully so that the unit will not interfere with normal driving operations.
- Avoid installing the unit in areas subject to dust, dirt, excessive vibration, or high temperature, such as in direct sunlight or near heater ducts.
- Use only the supplied mounting hardware for a safe and secure installation.
- To move the front panel smoothly, to insert/eject a disc easily, and especially to drive safely, keep an adequate distance between the front panel and the shift lever. The necessary distance differs, depending on the shift lever position of your car. Before installing the unit, choose the installation location carefully so that you can drive safely.

Mounting angle adjustment

Adjust the mounting angle to less than 45°.

About illustrations

XAV-602BT is the model used for illustration purposes, unless otherwise noted.

Connecting the parking brake lead 5

Be sure to connect the parking brake lead (light green) of the power supply connection cable ③ to the parking brake switch cord.

Installing the microphone 6

To capture your voice during handsfree calling, you need to install the microphone ⑩.

Cautions
- Keep the microphone away from extremely high temperatures and humidity.
- It is extremely dangerous if the cord becomes wound around the steering column or gearstick. Be sure to keep it and other parts from obstructing your driving.
- If airbags or any other shock-absorbing equipment is in your car, contact the store where you purchased this unit, or the car dealer, before installation.

Notes
- Before attaching the double-sided tape ⓑ, clean the surface of the dashboard with a dry cloth.
- Adjust the microphone angle to the proper position.

How to detach and attach the front panel 7

Before installing the unit, detach the front panel.

7-A To detach

Before detaching the front panel, press and hold OFF for more than 2 seconds to turn off the unit. Press ⏏, and then hold the left side of the front panel and pull it open to the right.

Tip
If you also lift the left side of the front panel slightly ❶, the front panel comes out easily.

7-B To attach

Place the recesses Ⓐ of the front panel onto the pegs Ⓑ on the unit, then lightly push the left side in.

Removing the bracket 8

Before installing the unit, remove the bracket ① from the unit.
Keep the release keys ② for future use as they are also necessary if you remove the unit from your car.

Caution
Handle the bracket ① carefully to avoid injuring your fingers.

1. **Insert the release keys ② into the catches between the unit and the bracket ① at the same time until they click.**
2. **Pull down the bracket ①, then pull up the unit to separate them.**

Note
The form of the frame and location of the catch may differ depending on the model.

Mounting the unit 9

9-A Mounting the unit with the supplied bracket

1. **Before installing, make sure that the catches on both sides of the bracket ① are bent inwards 3.5 mm (5/32 in).**
2. **Position the supplied bracket ① inside the dashboard.**
3. **Bend the claws outward for a tight fit.**
4. **Mount the unit onto the supplied bracket ①.**

Note
If the catches are straight or bent outwards, the unit will not be installed securely and may spring out.

9-B Mounting the unit in a Japanese car

You may be able to install this unit in some makes of Japanese cars without the supplied bracket. If you cannot, consult your Sony dealer.

When mounting this unit to the preinstalled brackets of your car, use the supplied screws ⑧ in the appropriate screw holes, based on your car: T for TOYOTA, M for MITSUBISHI and N for NISSAN.

Notes
- To avoid a malfunction, install only with the supplied screws ⑧.
- Do not apply excessive force to the buttons of the unit.
- Do not press on the LCD.
- Before mounting, make sure there is nothing on the top of the unit.

Warning if your car's ignition has no ACC position

Be sure to set the Auto OFF function. For details, refer to the supplied "Operating Instructions."
The unit will shut off completely and automatically in the set time when no source is selected, which prevents battery drainage.
If the Auto OFF function has not been set, press and hold OFF until the display disappears each time you turn the ignition off.

Reset button 10

When the installation and connections are completed, be sure to press the reset button, which is located behind the front panel, with a ballpoint pen, etc.

Fuse replacement 11

When replacing the fuse, be sure to use one matching the amperage rating stated on the original fuse. If the fuse blows, check the power connection and replace the fuse. If the fuse blows again after replacement, there may be an internal malfunction. In such a case, consult your nearest Sony dealer.

Español

Precauciones

- Elija cuidadosamente el lugar de montaje de forma que la unidad no interfiera con las funciones normales de conducción.
- Evite instalar la unidad donde pueda quedar sometida a polvo, suciedad, vibraciones excesivas o altas temperaturas como, por ejemplo, a la luz solar directa o cerca de conductos de calefacción.
- Para realizar una instalación segura y firme, utilice solamente elementos de instalación suministrados.
- Para mover el panel frontal con suavidad, insertar/extraer discos fácilmente y, sobre todo, para conducir con seguridad, es necesario mantener una distancia adecuada entre el panel frontal y la palanca de cambios. La distancia necesaria varía en función de la posición de la palanca de cambios de su automóvil. Antes de instalar la unidad, elija cuidadosamente el lugar de instalación para que pueda conducir con seguridad.

Ajuste del ángulo de montaje

Ajuste el ángulo de montaje a menos de 45°.

Acerca de las ilustraciones

XAV-602BT es el modelo que se utiliza para las ilustraciones, a menos que se indique lo contrario.

Conexión del cable del freno de estacionamiento 5

Asegúrese de conectar el cable del freno de estacionamiento (verde claro) del cable de conexión de la fuente de alimentación ③ al cable de conmutación del freno de estacionamiento.

Instalación del micrófono 6

Para capturar la voz durante llamadas con manos libres, debe instalar el micrófono ⑩.

Precauciones
- Mantenga el micrófono alejado de lugares con humedad y temperaturas muy altas.
- Que el cable se enrolle alrededor del volante o de la palanca de cambios es extremadamente peligroso. Asegúrese de impedir que el cable y otros componentes obstruyan la conducción.
- Si el vehículo dispone de airbags u otros dispositivos de amortiguación de impactos, póngase en contacto con el establecimiento donde ha adquirido esta unidad o con el concesionario de automóviles antes de llevar a cabo la instalación.

Notas
- Antes de colocar la cinta adhesiva de doble cara ⓑ, limpie la superficie del tablero con un paño seco.
- Ajuste el ángulo del micrófono en la posición adecuada.

Forma de extraer e instalar el panel frontal 7

Antes de instalar la unidad, extraiga el panel frontal.

7-A Para extraerlo

Antes de extraer el panel frontal, mantenga presionado OFF durante más de 2 segundos para desactivar la unidad. Presione ⏏, y luego mantenga apretado el lado izquierdo del panel frontal y tire hacia la derecha para abrirlo.

Consejo
Si también levanta ligeramente el lado izquierdo del panel frontal ❶, el panel frontal saldrá fácilmente.

7-B Para instalarlo

Coloque los orificios Ⓐ del panel frontal en las clavijas Ⓑ de la unidad, luego presione suavemente el lado izquierdo.

Extracción del soporte 8

Antes de instalar la unidad, extraiga el soporte ① de la unidad.
Conserve las llaves de liberación ② para utilizarlas en el futuro, ya que también las necesitará si retira la unidad del automóvil.

Precaución
Tenga mucho cuidado al manipular el soporte ① para evitar posibles lesiones en los dedos.

1. **Inserte las llaves de liberación ② en los enganches entre la unidad y el soporte ① al mismo tiempo hasta que encajen.**
2. **Presione el soporte ① y, a continuación, levante la unidad para separar ambos elementos.**

Nota
La forma del marco y la ubicación de los enganches pueden ser diferentes según el modelo.

Montaje de la unidad 9

9-A Montaje de la unidad con el soporte suministrado

1. **Antes de instalar la unidad, compruebe que los enganches de ambos lados del soporte ① estén doblados hacia adentro 3,5 mm.**
2. **Coloque el soporte suministrado ① dentro del salpicadero.**
3. **Doble los ganchos hacia fuera para conseguir una fijación segura.**
4. **Monte la unidad en el soporte suministrado ①.**

Nota
Si los enganches están derechos o doblados hacia afuera, la unidad no se instalará correctamente y puede desprenderse.

9-B Montaje de la unidad en un automóvil japonés

Es posible que pueda instalar la unidad en algunos automóviles japoneses sin el soporte suministrado. En caso de que no pudiera, consulte al distribuidor Sony más cercano.

Cuando monte la unidad en los soportes preinstalados de su automóvil, utilice los tornillos suministrados ⑧ en los orificios para tornillos correspondientes en función de su automóvil: T para TOYOTA, M para MITSUBISHI y N para NISSAN.

Notas
- Para evitar que se produzcan fallas de funcionamiento, realice la instalación solamente con los tornillos suministrados ⑧.
- No ejerza excesiva fuerza sobre los botones de la unidad.
- No presione la pantalla LCD.
- Asegúrese de que no haya ningún objeto encima de la unidad antes de montarla.

Advertencia: si el encendido del automóvil no dispone de una posición ACC

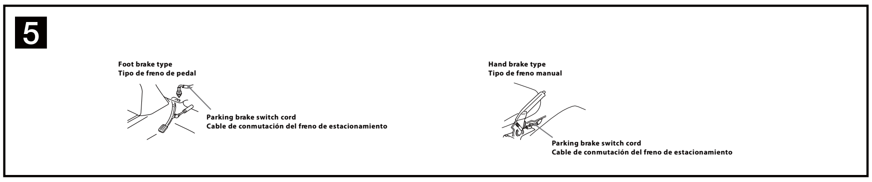
Asegúrese de ajustar la función Auto DESACTIVAR. Para obtener más información, consulte el "Manual de instrucciones" suministrado.
La unidad se apagará completa y automáticamente en el tiempo establecido si no se selecciona ninguna fuente, lo cual evita que se desgaste la batería.
Si no ha ajustado la función Auto DESACTIVAR, mantenga presionado OFF cada vez que apague el interruptor de encendido, hasta que la pantalla desaparezca.

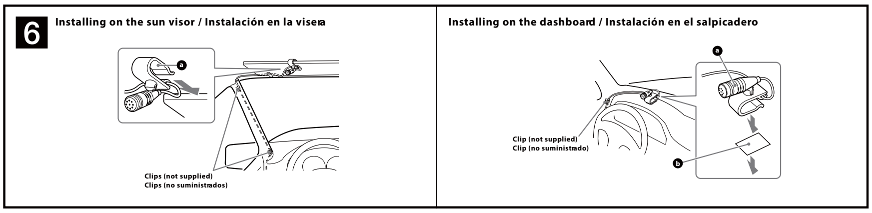
Botón de reinicio 10

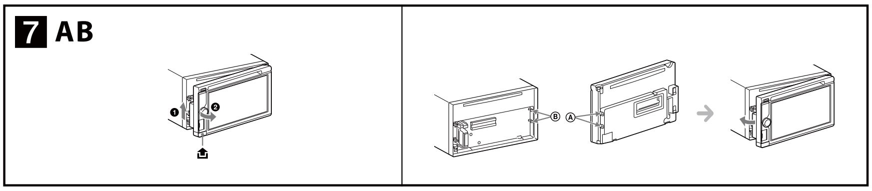
Una vez finalizadas la instalación y las conexiones, asegúrese de presionar el botón de reinicio, que está ubicado detrás del panel frontal, con un bolígrafo, etc.

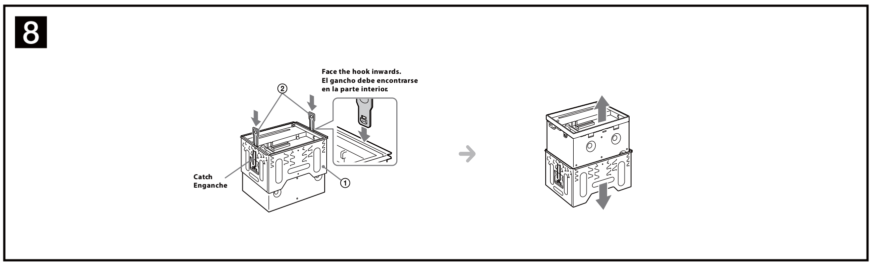
Sustitución del fusible 11

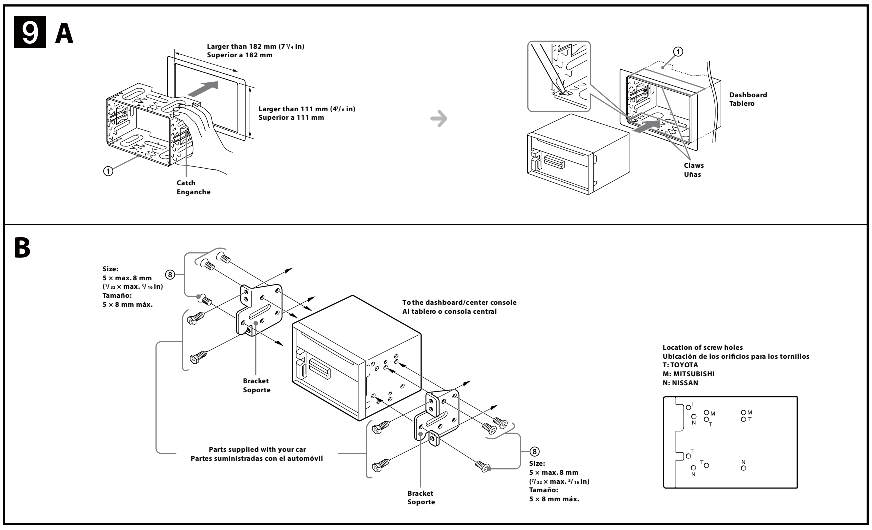
Al sustituir el fusible, asegúrese de utilizar uno cuyo amperaje coincida con el especificado en el original. Si el fusible se funde, verifique la conexión de alimentación y sustitúyalo. Si el fusible vuelve a fundirse después de sustituirlo, es posible que exista alguna falla de funcionamiento interno. En tal caso, consulte con el distribuidor Sony más cercano.

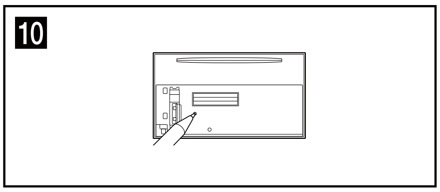


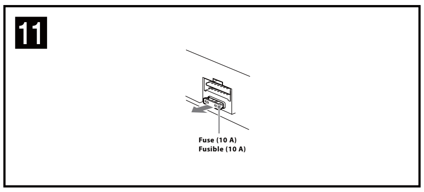












(E (PAL) and Indian models)

English

Cautions

- **Run all ground (earth) leads to a common ground (earth) point.**
- This unit is designed for negative ground (earth) 12 V DC operation only.
- Do not disassemble or modify the unit.
- Do not install in locations which interfere with airbag operation.
- Do not get the leads under a screw, or caught in moving parts (e.g. seat railing).
- Before making connections, turn the car ignition off to avoid short circuits.
- Connect the **yellow** and **red** power supply leads only after all other leads have been connected.
- Be sure to insulate any loose unconnected leads with electrical tape for safety.
- Do not press on the LCD when installing the unit.
- Install the unit with the monitor facing straight forward; do not install it at a slanted angle.

Notes on the power supply lead (yellow)

- When connecting this unit in combination with other stereo components, the amperage rating of the car circuit to which the unit is connected must be higher than the sum of each component's fuse amperage rating.
- If no car circuits are rated high enough, connect the unit directly to the battery.

Connection diagram 2

❶ **To a common ground (earth) point**
First connect the black ground (earth) lead, then connect the yellow and red power supply leads.

❷ **To the power antenna (aerial) control lead or the power supply lead of the antenna (aerial) booster**

Notes

- It is not necessary to connect this lead if there is no power antenna (aerial) or antenna (aerial) booster, or with a manually-operated telescopic antenna (aerial).
- If your car has a built-in FM/AM antenna (aerial) in the rear/side glass, see "Notes on the control and power supply leads."

To AMP REMOTE IN of an optional power amplifier
This connection is only for amplifiers. Connecting any other system may damage the unit.

❸ **To a car's illumination signal**
Be sure to first connect the black ground (earth) lead to a common ground (earth) point.

❹ **To the +12 V power terminal which is energized when the ignition switch is set to the accessory position**

Notes

- If there is no accessory position, connect to the +12 V power (battery) terminal which is energized at all times.
  Be sure to first connect the black ground (earth) lead to a common ground (earth) point.
- If your car has a built-in FM/AM antenna (aerial) in the rear/side glass, see "Notes on the control and power supply leads."

❺ **To the +12 V power terminal which is energized at all times**
Be sure to first connect the black ground (earth) lead to a common ground (earth) point.

❻ **To the parking brake switch cord**
The mounting position of the parking brake switch cord depends on your car. For details, see "Connecting the parking brake lead (5)" on the reverse side.

Ⓐ **To an auxiliary device such as a portable media player, game console, etc. (not supplied)**

Tip
You can use an RCA pin cord (not supplied) to connect auxiliary devices.

Ⓑ **To the +12 V power terminal of the car's rear lamp lead (only when connecting the rear view camera)**

Notes on the control and power supply leads

- REM OUT lead (blue/white striped) supplies +12 V DC when you turn on the unit.
- If your car has built-in FM/AM antenna (aerial) in the rear/side glass, connect REM OUT lead (blue/white striped) or the accessory power supply lead (red) to the power terminal of the existing antenna (aerial) booster. For details, consult your dealer.
- A power antenna (aerial) without a relay box cannot be used with this unit.

Memory hold connection
When the yellow power supply lead is connected, power will always be supplied to the memory circuit even when the ignition switch is turned off.

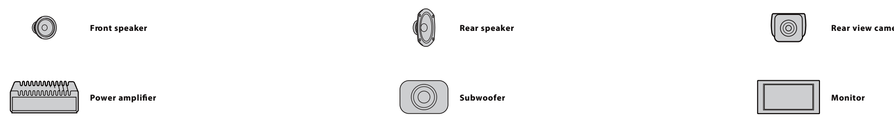
Notes on speaker connection

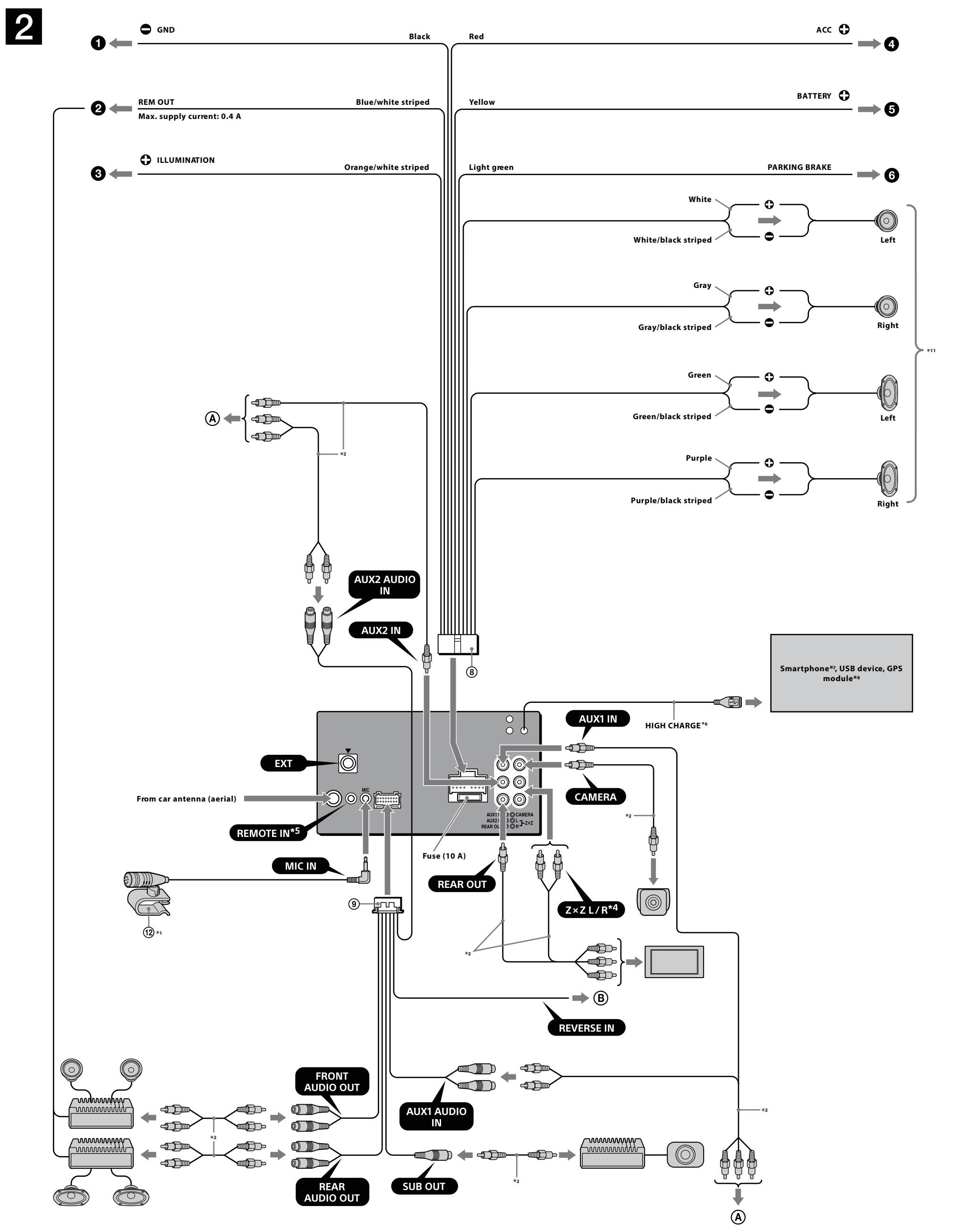
- Before connecting the speakers, turn the unit off.
- Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities to avoid damage.
- Do not connect the speaker terminals to the car chassis, or connect the terminals of the right speakers with those of the left speakers.
- Do not connect the ground (earth) lead of this unit to the negative (–) terminal of a speaker.
- Do not attempt to connect the speakers in parallel.
- Connect only passive speakers. Connecting active speakers (with built-in amplifiers) to the speaker terminals may damage the unit.
- To avoid a malfunction, do not use the built-in speaker leads installed in your car if they feature a common negative (–) lead for the right and left speakers.
- Do not connect the unit's speaker leads to each other.

Notes on connection

- If [Check Audio Output Wiring] appears in the display, make sure the speaker and amplifier are connected correctly.
- To use the monitor for the rear seats, connect the parking brake switch cord to the ground (earth).

Equipment used in illustrations (not supplied)





*1 For details on installing the microphone, see "Installing the microphone (6)" on the reverse side (Except for XAV-742).
*2 RCA pin cord (not supplied)
*4 The sound is output from this terminal only when ZONE × ZONE is activated. This terminal outputs a fixed level regardless of the volume control of the unit.
*5 A separate adaptor may be required.
*6 The USB rear cable labeled "HIGH CHARGE" is recommended to use for recharging the battery of a connected device.
*7 To connect a smartphone to the main unit, an appropriate cable (not supplied) is required.
*8 GPS module for AV Center (XA-NV300T) (not supplied). Australia models only.
*11 Speaker impedance: 4 – 8 ohms × 4

XAV-602BT

English

Precautions

- Choose the installation location carefully so that the unit will not interfere with normal driving operations.
- Avoid installing the unit in areas subject to dust, dirt, excessive vibration, or high temperature, such as in direct sunlight or near heater ducts.
- Use only the supplied mounting hardware for a safe and secure installation.
- To move the front panel smoothly, to insert/eject a disc easily, and especially to drive safely, keep an adequate distance between the front panel and the shift lever. The necessary distance differs, depending on the shift lever position of your car. Before installing the unit, choose the installation location carefully so that you can drive safely.

Mounting angle adjustment

Adjust the mounting angle to less than 45°.

About illustrations

XAV-602BT is the model used for illustration purposes, unless otherwise noted.

Connecting the parking brake lead 5

Be sure to connect the parking brake lead (light green) of the power supply connection cable ⑧ to the parking brake switch cord.

Installing the microphone 6

To capture your voice during handsfree calling, you need to install the microphone ⑫.

Cautions
- Keep the microphone away from extremely high temperatures and humidity.
- It is extremely dangerous if the cord becomes wound around the steering column or gearstick. Be sure to keep it and other parts from obstructing your driving.
- If airbags or any other shock-absorbing equipment is in your car, contact the store where you purchased this unit, or the car dealer, before installation.

Notes
- Before attaching the double-sided tape ⓑ, clean the surface of the dashboard with a dry cloth.
- Adjust the microphone angle to the proper position.

How to detach and attach the front panel 7

Before installing the unit, detach the front panel.

7-A To detach

Before detaching the front panel, press and hold OFF for more than 2 seconds to turn off the unit. Press ⏏, and then hold the left side of the front panel and pull it open to the right.

Tip
If you also lift the left side of the front panel slightly ❶, the front panel comes out easily.

7-B To attach

Place the recesses Ⓐ of the front panel onto the pegs Ⓑ on the unit, then lightly push the left side in.

Removing the bracket 8

Before installing the unit, remove the bracket ① from the unit.
Keep the release keys ② for future use as they are also necessary if you remove the unit from your car.

Caution
Handle the bracket ① carefully to avoid injuring your fingers.

1. **Insert the release keys ② into the catches between the unit and the bracket ① at the same time until they click.**
2. **Pull down the bracket ①, then pull up the unit to separate them.**

Note
The form of the frame and location of the catch may differ depending on the model.

Mounting the unit 10

10-A Mounting the unit with the supplied bracket

1. **Before installing, make sure that the catches on both sides of the bracket ① are bent inwards 3.5 mm (5/32 in).**
2. **Position the supplied bracket ① inside the dashboard.**
3. **Bend the claws outward for a tight fit.**
4. **Mount the unit onto the supplied bracket ①.**

Note
If the catches are straight or bent outwards, the unit will not be installed securely and may spring out.

10-B Mounting the unit in a Japanese car

You may be able to install this unit in some makes of Japanese cars without the supplied bracket. If you cannot, consult your Sony dealer.

When mounting this unit to the preinstalled brackets of your car, use the supplied screws ⑩ in the appropriate screw holes, based on your car: T for TOYOTA, M for MITSUBISHI and N for NISSAN.

Notes
- To avoid a malfunction, install only with the supplied screws ⑩.
- Do not apply excessive force to the buttons of the unit.
- Do not press on the LCD.
- Before mounting, make sure there is nothing on the top of the unit.

Warning if your car's ignition has no ACC position

Be sure to set the Auto OFF function. For details, refer to the supplied "Operating Instructions."
The unit will shut off completely and automatically in the set time when no source is selected, which prevents battery drainage.
If the Auto OFF function has not been set, press and hold OFF until the display disappears each time you turn the ignition off.

Reset button 11

When the installation and connections are completed, be sure to press the reset button, which is located behind the front panel, with a ballpoint pen, etc.

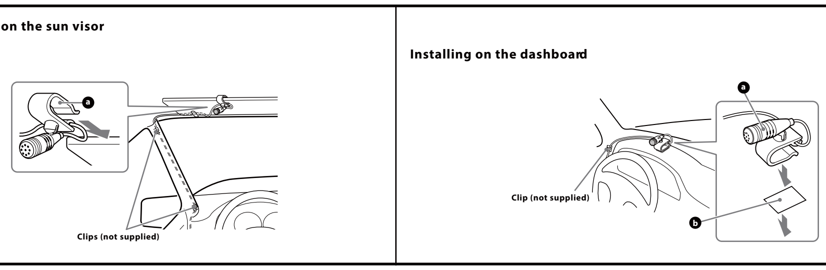
Fuse replacement 12

When replacing the fuse, be sure to use one matching the amperage rating stated on the original fuse. If the fuse blows, check the power connection and replace the fuse. If the fuse blows again after replacement, there may be an internal malfunction. In such a case, consult your nearest Sony dealer.

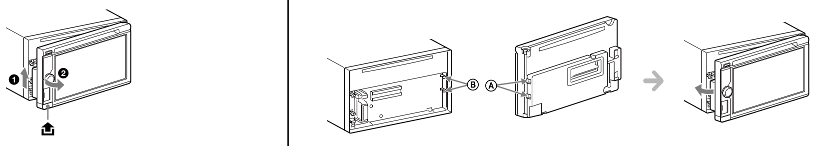
5



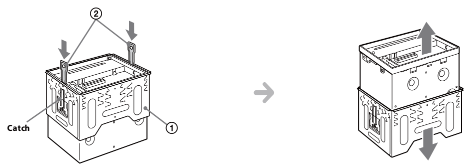
6



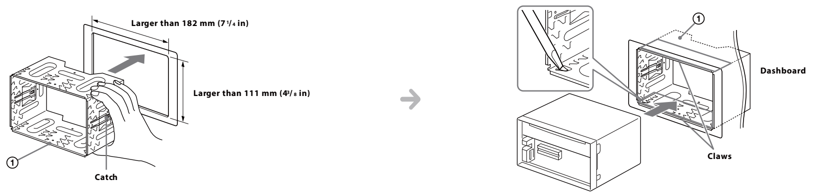
7 AB



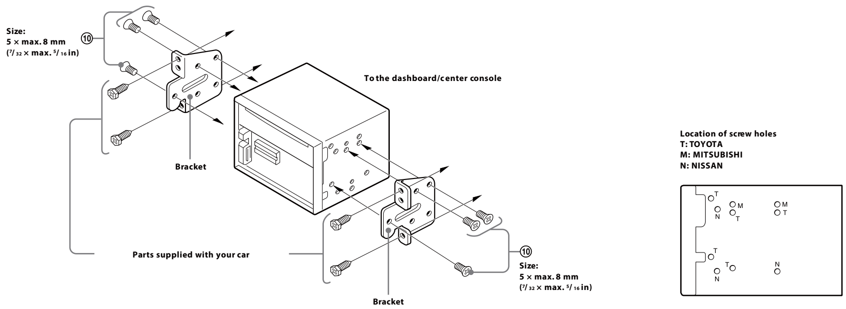
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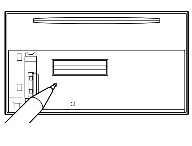
10 A



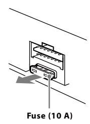
B



11



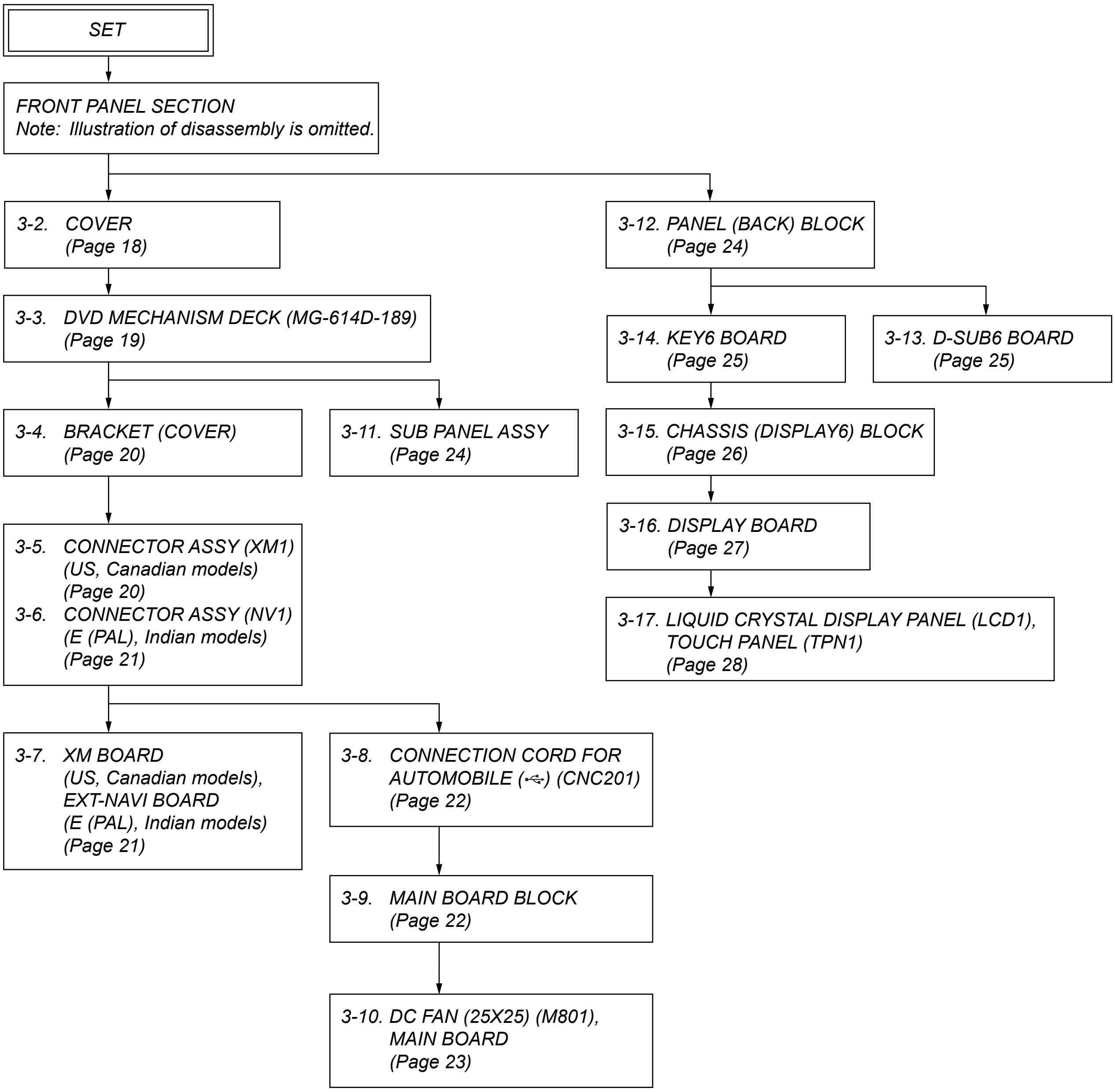
12



SECTION 3
DISASSEMBLY

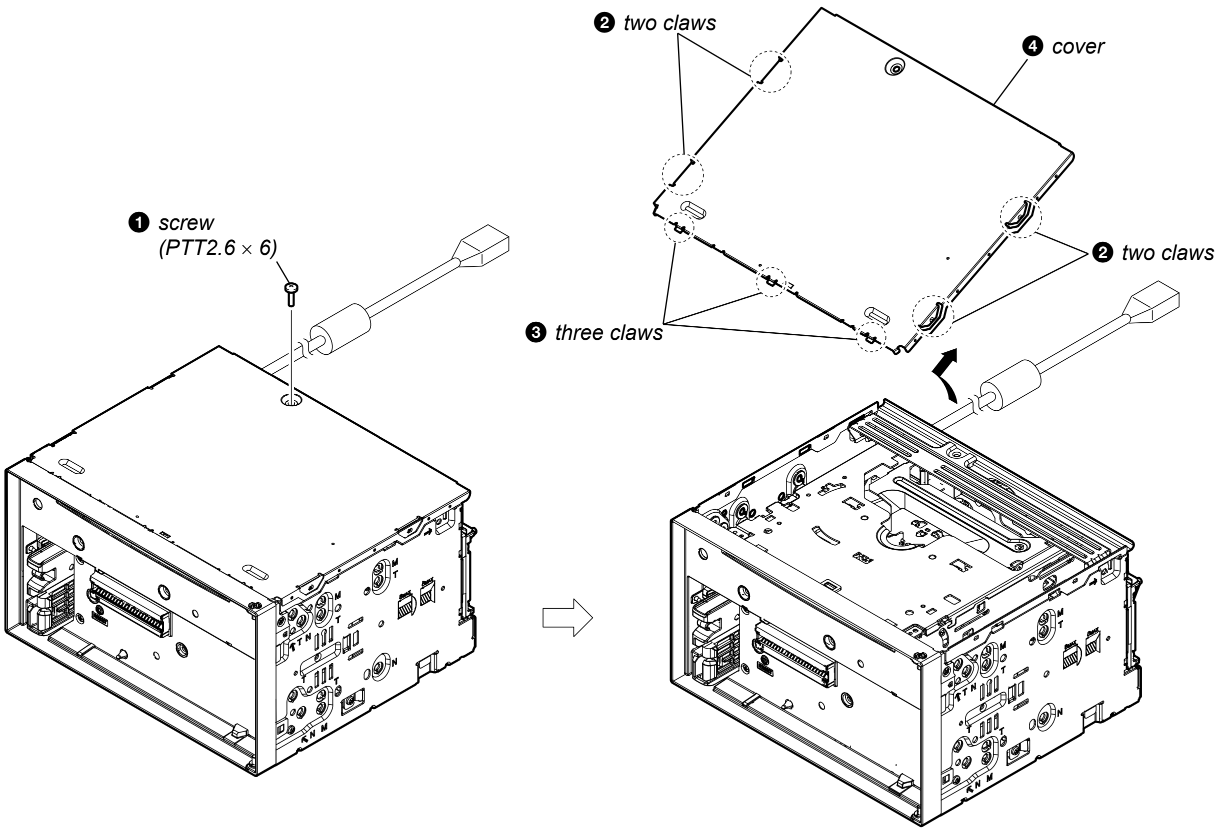
• This set can be disassembled in the order shown below.

3-1. DISASSEMBLY FLOW



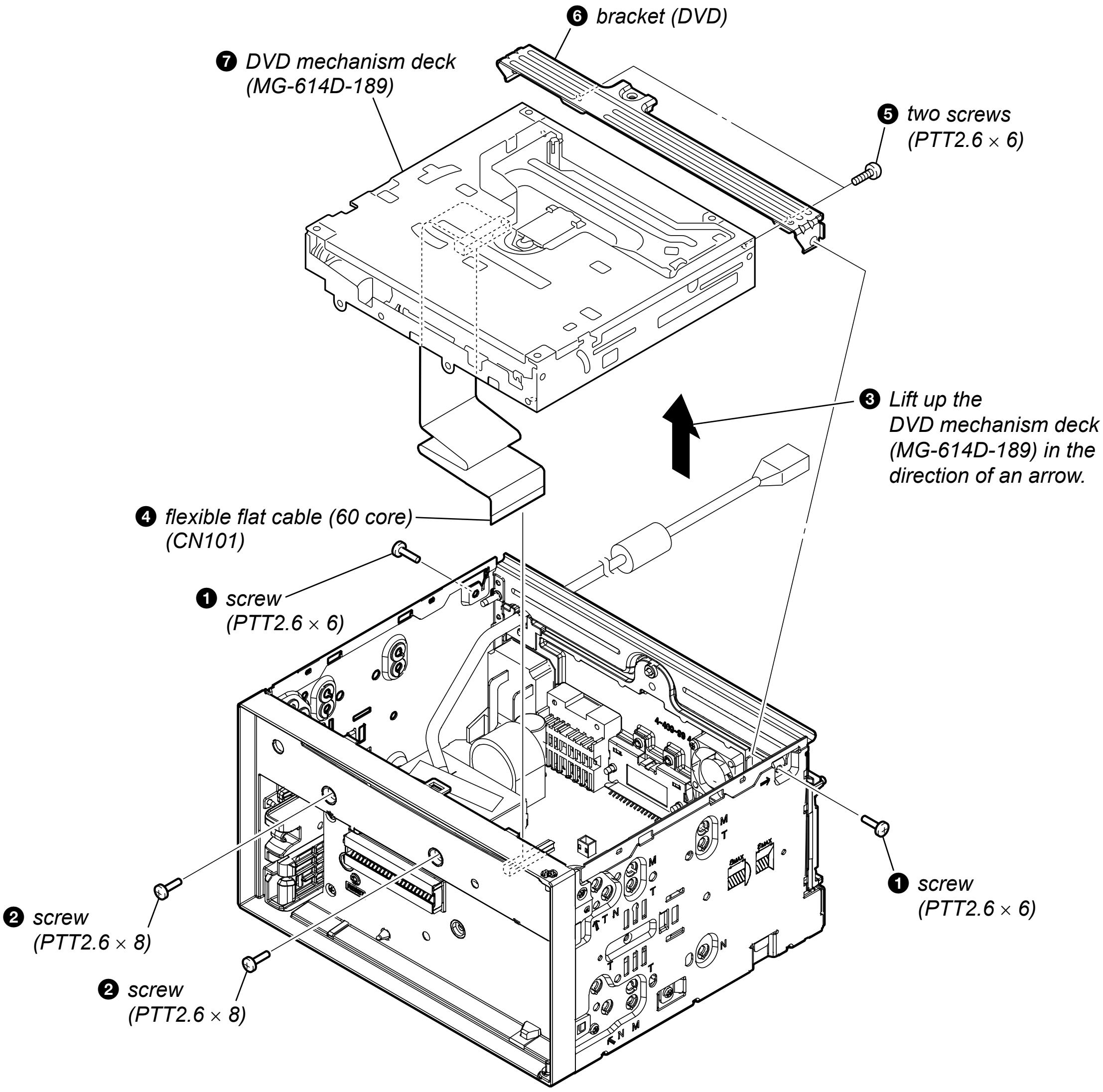
Note: Follow the disassembly procedure in the numerical order given.

3-2. COVER

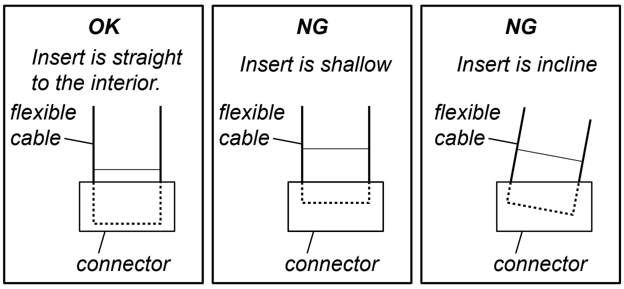


3-3. DVD MECHANISM DECK (MG-614D-189)

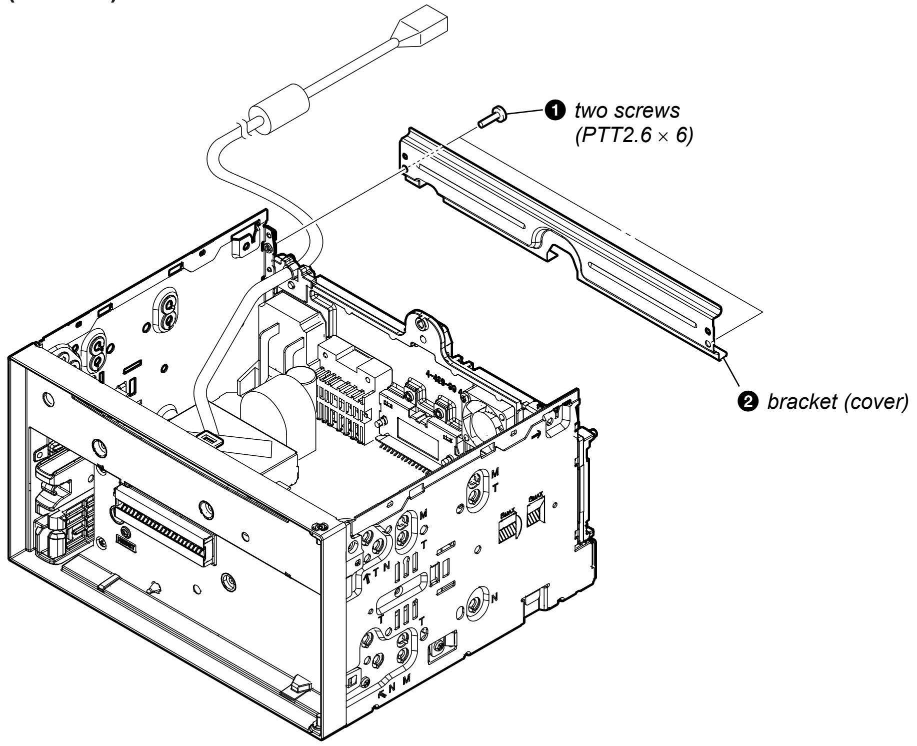
Note 1: The service manual of the mechanism deck, used in this model, has been issued in a separate volume. Please refer to the service manual of the MG-614 series for the mechanism deck information.



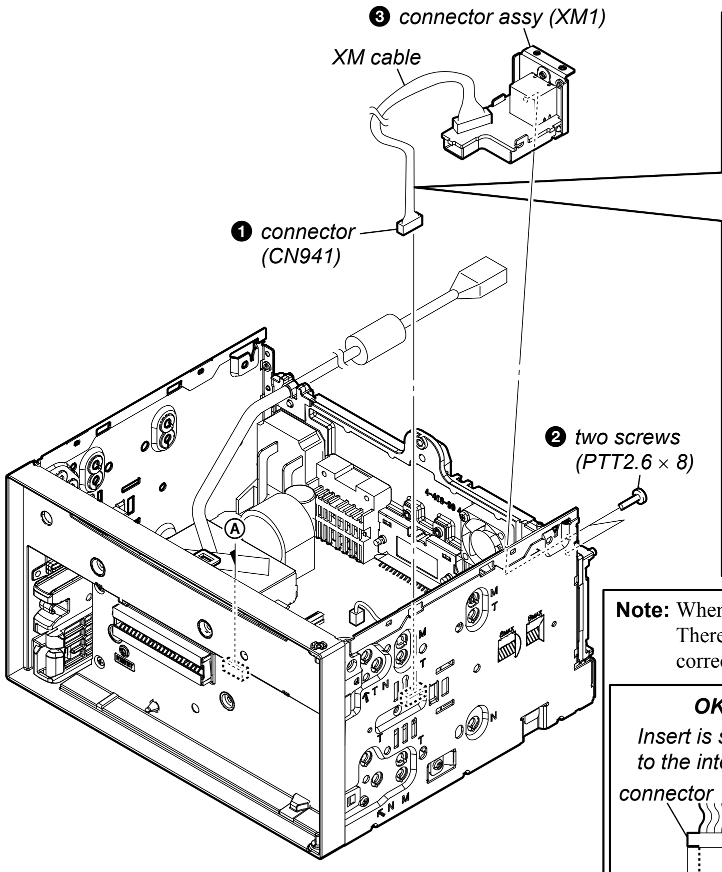
Note 2: When you install the flexible flat cable (60 core), please install it correctly. There is a possibility that this machine damages when not correctly installing it.

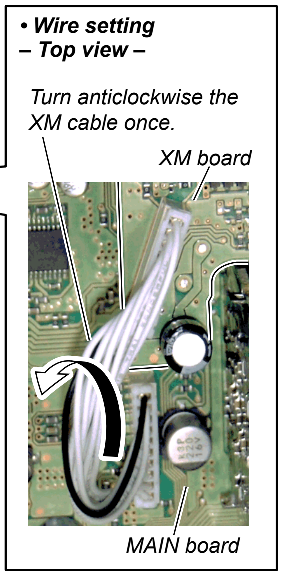


3-4. BRACKET (COVER)

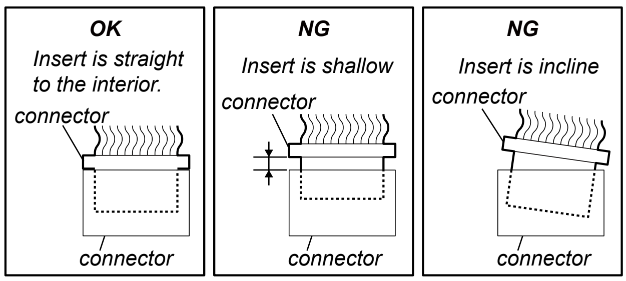


3-5. CONNECTOR ASSY (XM1) (US, Canadian models)

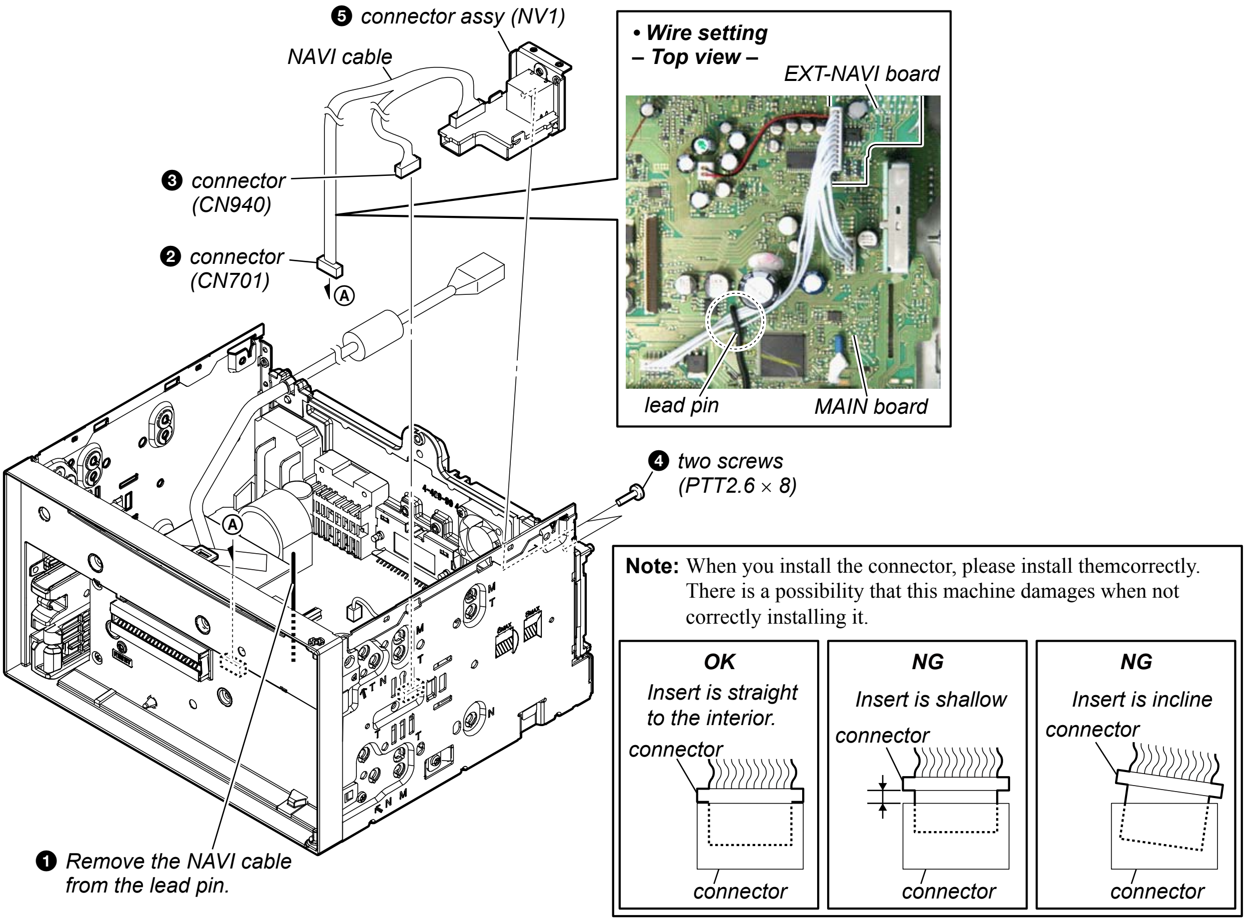




Note: When you install the connector, please install themcorrectly. There is a possibility that this machine damages when not correctly installing it.

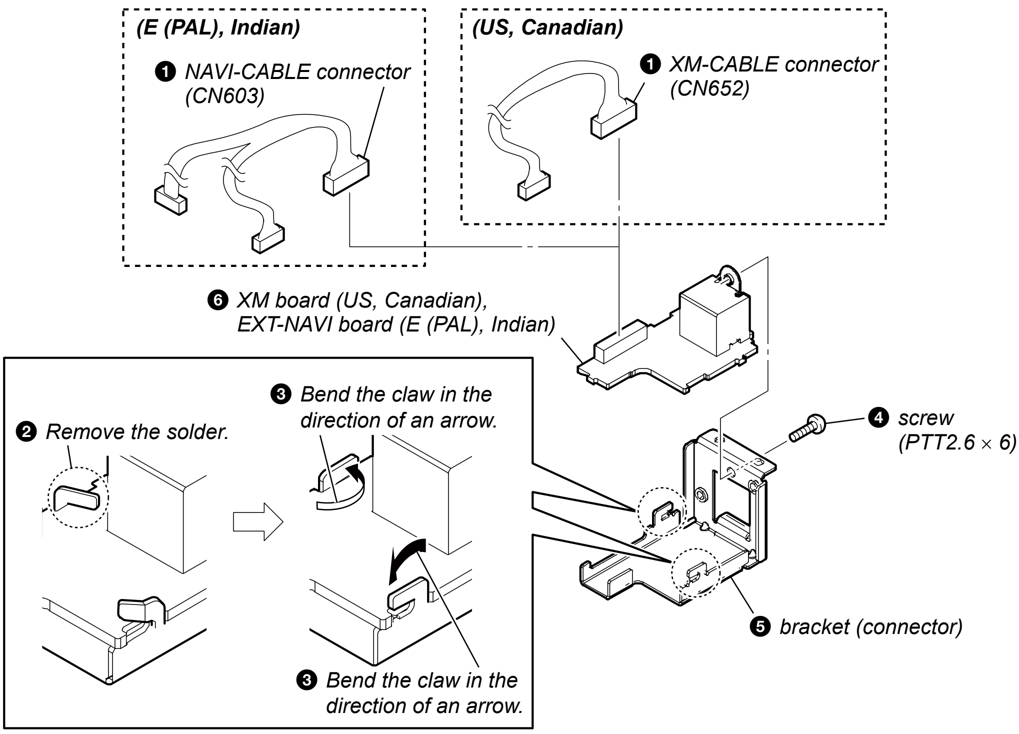


3-6. CONNECTOR ASSY (NV1) (E (PAL), Indian models)

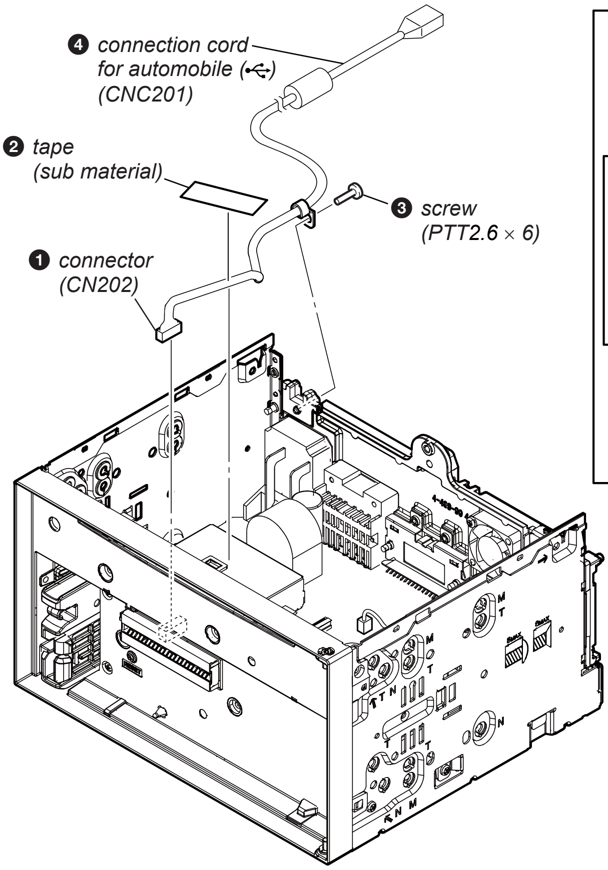


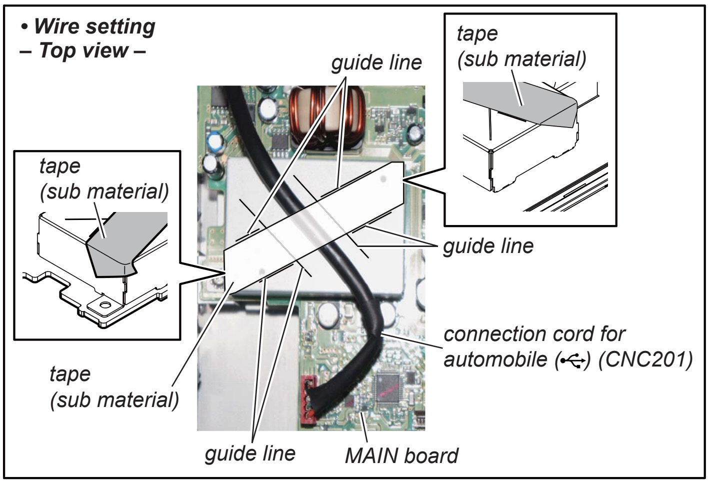
Note: When you install the connector, please install themcorrectly. There is a possibility that this machine damages when not correctly installing it.

3-7. XM BOARD (US, Canadian models), EXT-NAVI BOARD (E (PAL), Indian models)

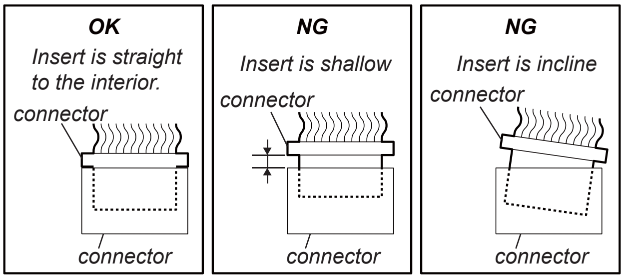


3-8. CONNECTION CORD FOR AUTOMOBILE (⭠) (CNC201)

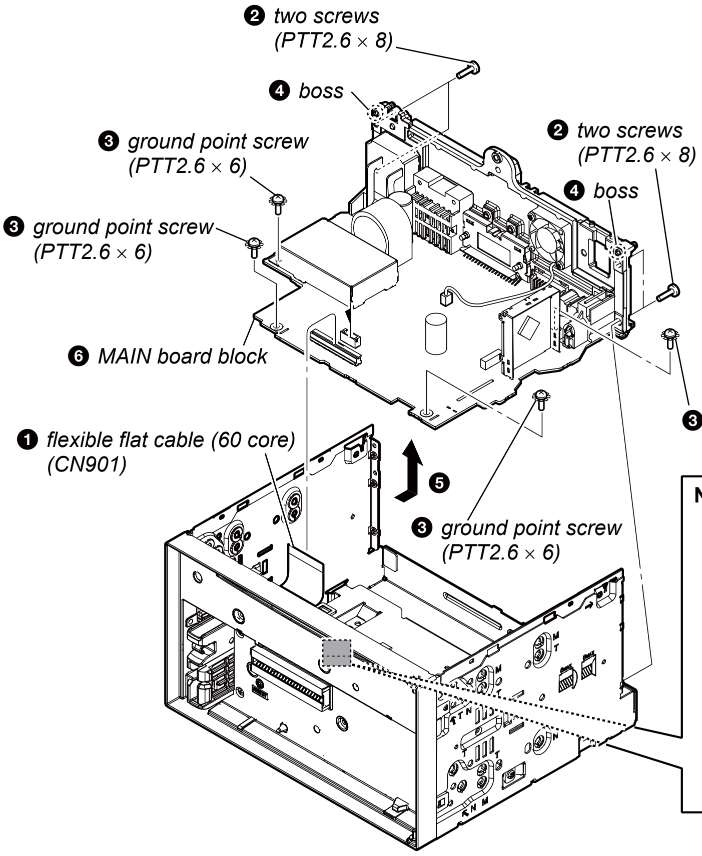




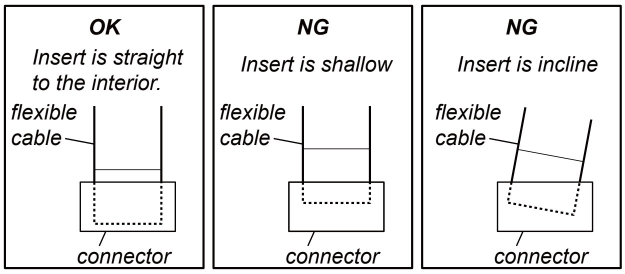
Note: When you install the connector, please install themcorrectly. There is a possibility that this machine damages when not correctly installing it.



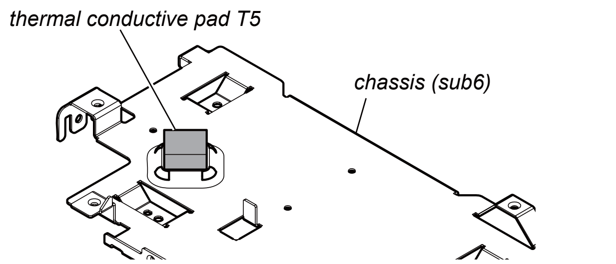
3-9. MAIN BOARD BLOCK



Note 1: When you install the flexible flat cable (60 core), please install it correctly. There is a possibility that this machine damages when not correctly installing it.

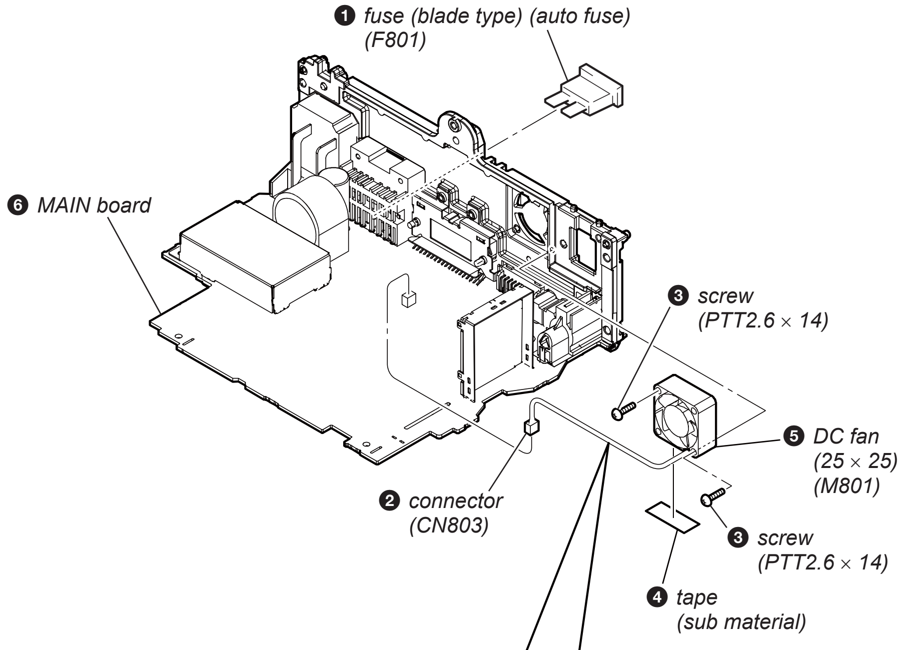


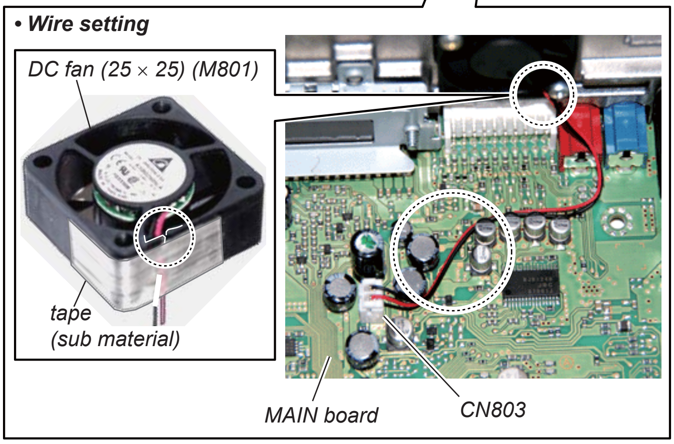
Note 2: If the thermal conductive pad T5 has removed together with the MAIN board block, stick with reference to the following figure.



3-10. DC FAN (25X25) (M801), MAIN BOARD

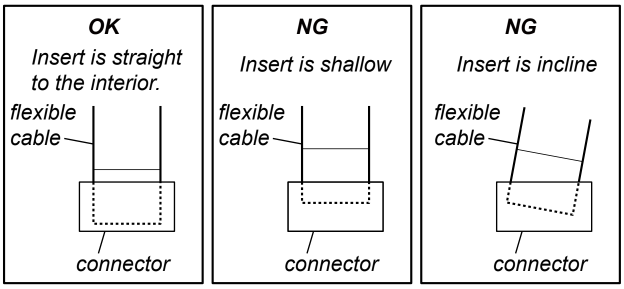
Note: When the complete MAIN board is replaced, the destination setting is necessary. Refer to “NOTE THE MAIN BOARD OR SYSTEM CONTROLLER (IC502) REPLACING” on page 5.

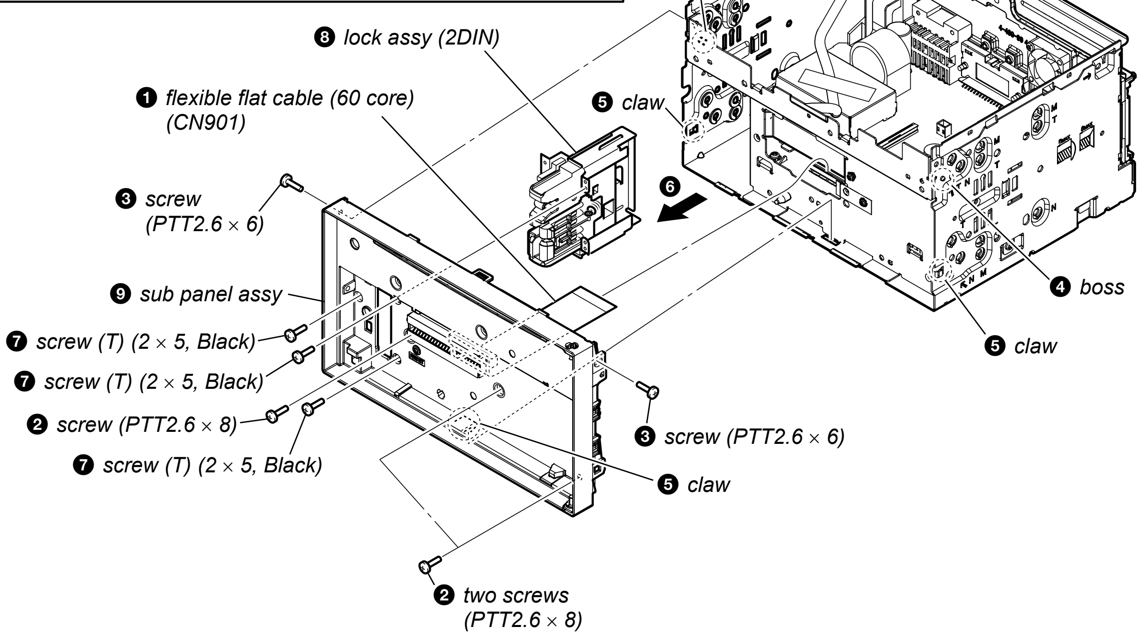




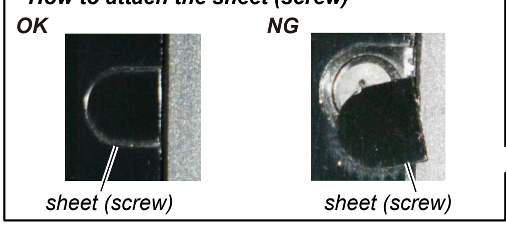
3-11. SUB PANEL ASSY

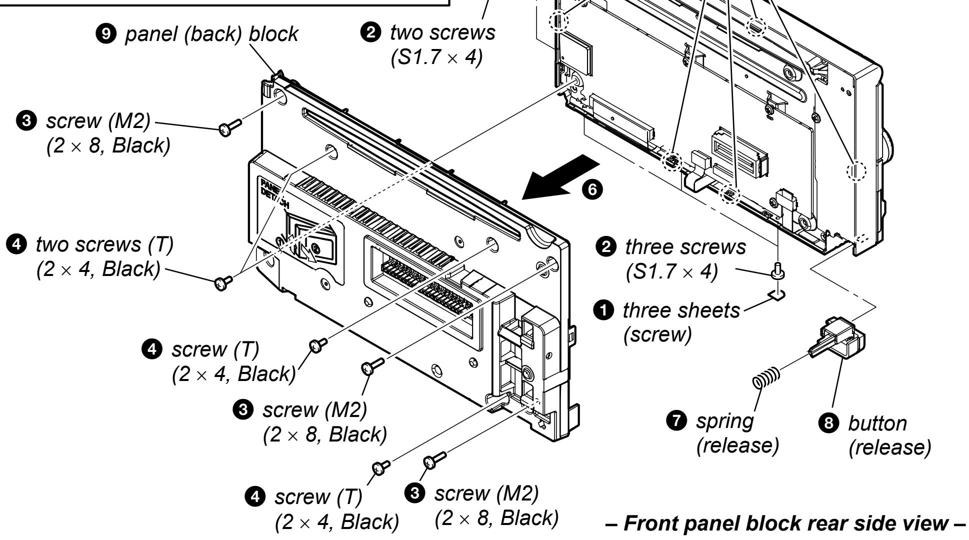
Note: When you install the flexible flat cable (60 core), please install it correctly. There is a possibility that this machine damages when not correctly installing it.





3-12. PANEL (BACK) BLOCK

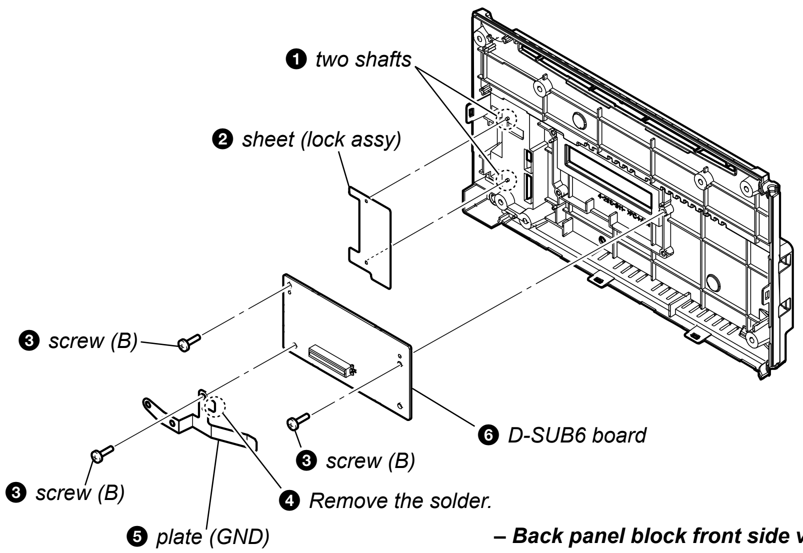




– Front panel block rear side view –

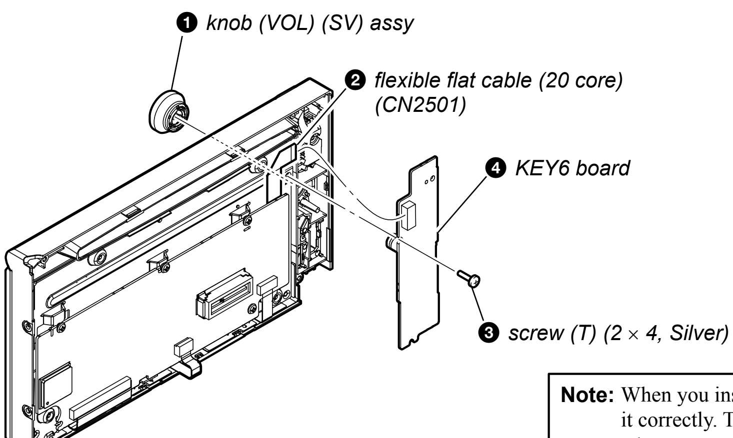
Note: If the installation position of a screw (T) and a screw (M2) is mistaken, liquid crystal display panel (LCD1) and touch panel (TPN1) are sometimes damaged. Be sure to install after checking the kind and installation position of a screw.

3-13. D-SUB6 BOARD



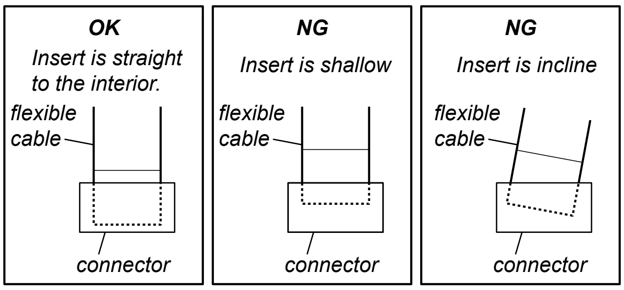
– Back panel block front side view –

3-14. KEY6 BOARD



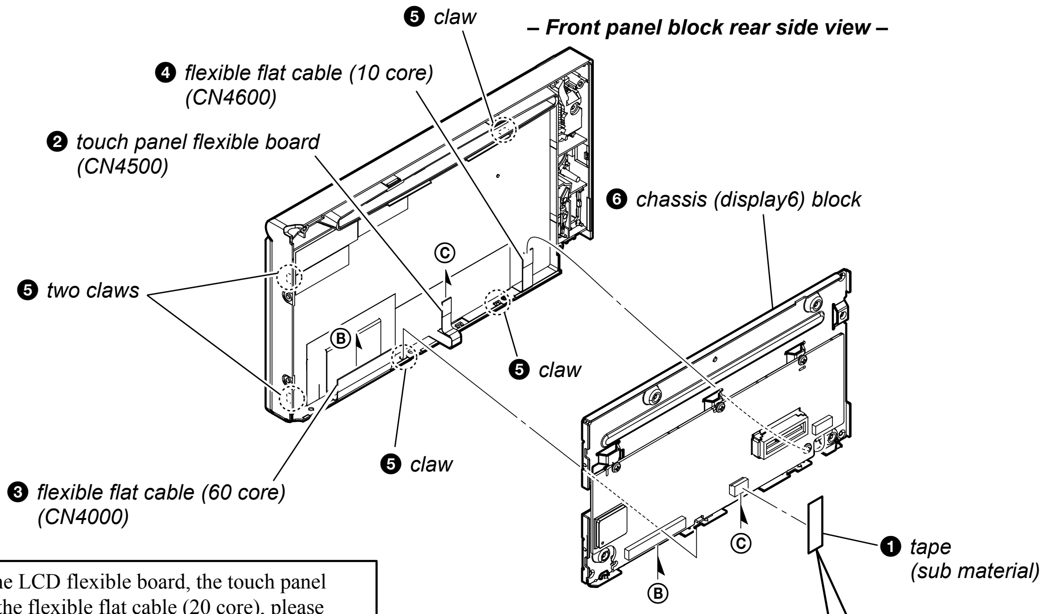
– Front panel block rear side view –

Note: When you install the flexible flat cable (20 core), please install it correctly. There is a possibility that this machine damages when not correctly installing it.

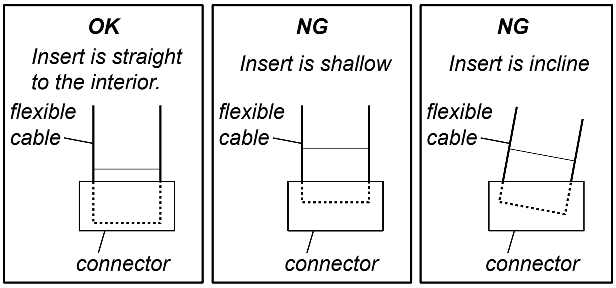


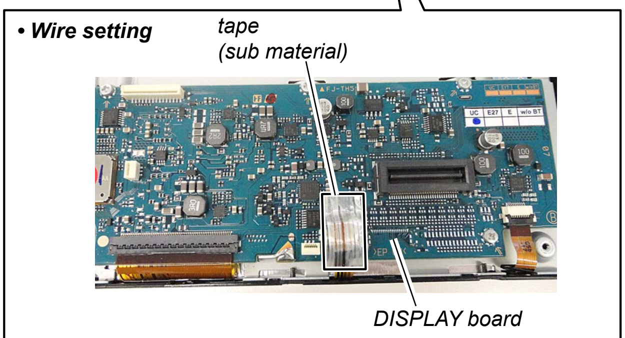
3-15. CHASSIS (DISPLAY6) BLOCK

Note 1: When complete DISPLAY board is exchanged, exchanged old complete DISPLAY board and is destroyed with the hammer, and throw out it.

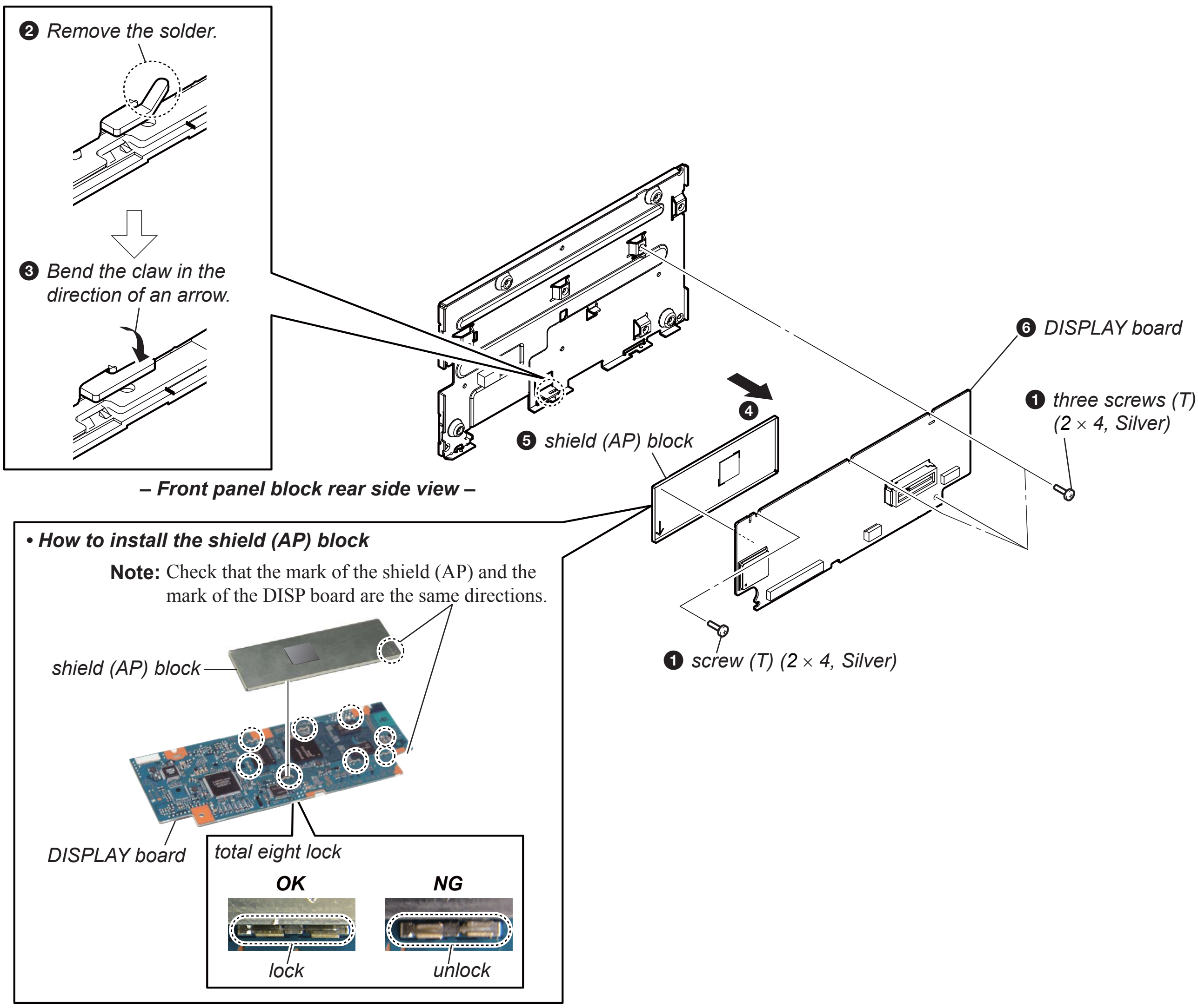


Note 2: When you install the LCD flexible board, the touch panel flexible board and the flexible flat cable (20 core), please install them correctly. There is a possibility that this machine damages when not correctly installing it.

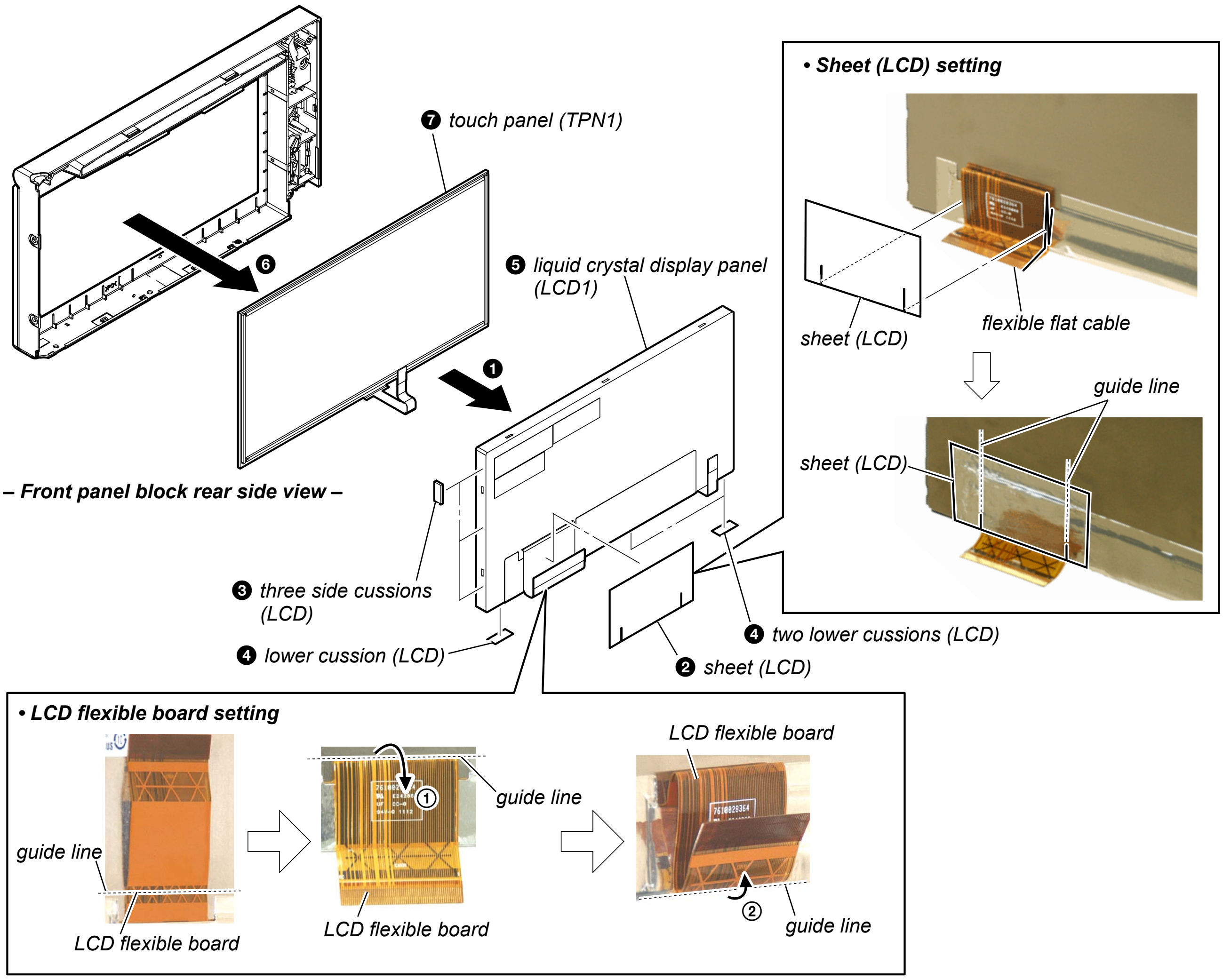




3-16. DISPLAY BOARD



3-17. LIQUID CRYSTAL DISPLAY PANEL (LCD1), TOUCH PANEL (TPN1)



SECTION 4
ELECTRICAL ADJUSTMENTS

MONITOR SECTION

If any of the following parts was replaced, execute the “Flicker Adjustment” as mentioned below.

- Liquid crystal display panel (LCD1)
- Complete DISPLAY board

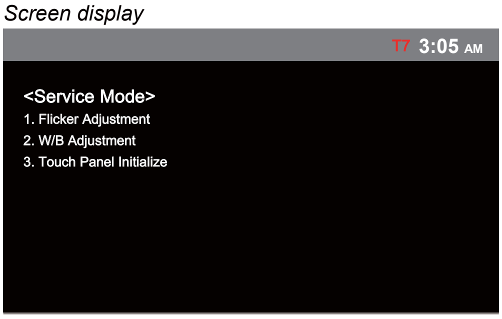
Preparation:

- Remote commander
- Input signal for AUX2 IN jack (NTSC and PAL white 40% raster)

FLICKER ADJUSTMENT

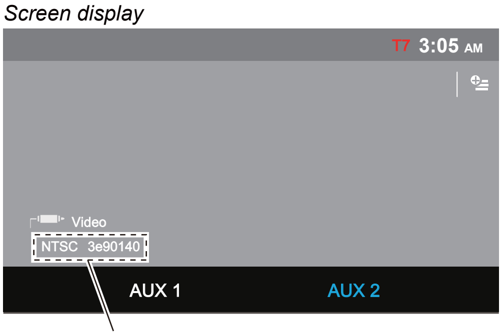
1. Input the NTSC white 40% raster signal from AUX2 IN jack on the rear side of main unit.
2. In the state of source off (Home screen is displayed), pressing the buttons in order of the [4] → [5] → [7] (press only the [7] button for two seconds) button on the remote commander.

Screen display



3. Press the [1] button on the remote commander, change to the NTSC adjustment screen.

Screen display



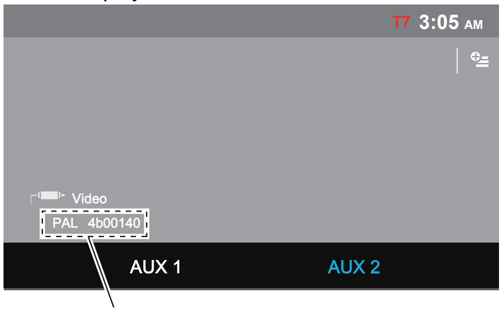
NTSC adjustment value

Note 1: The display of the adjustment screen disappears, when there is no operation of a remote commander for five seconds. Please touch a screen, in order to issue the adjustment display again.

The minimum value of NTSC adjustment value is displayed. The adjustable range is from “3e90140” to “3e90310” (Hexa-decimal).

4. Press the [↑] or [↓] buttons on the remote commander, adjust so that the flicker becomes minimum.
5. Input the PAL white 40% raster signal from AUX2 IN jack on the rear side of main unit.
6. Press the [←] or [→] buttons on the remote commander, change to the PAL adjustment screen.

Screen display

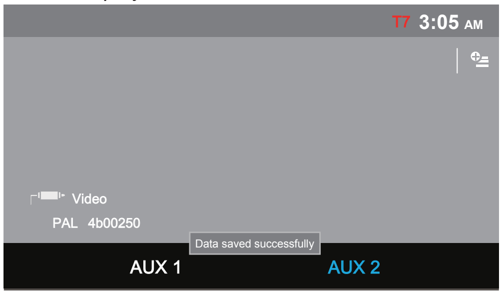


PAL adjustment value

The minimum value of PAL adjustment value is displayed. The adjustable range is from “4b00140” to “4b00310” (Hexa-decimal).

7. Press the [↑] or [↓] buttons on the remote commander, adjust so that the flicker becomes minimum.
8. When the adjustment of both NTSC and PAL finished, press the [ENTER] button on the remote commander. The message “Data saved successfully” appears on the screen. (Display values in the following figure are example)

Screen display



Note 2: When only one of the two of NTSC or PAL adjusted and saves, the NTSC or PAL which is not adjusted is saved by the minimum value of an adjustable range.

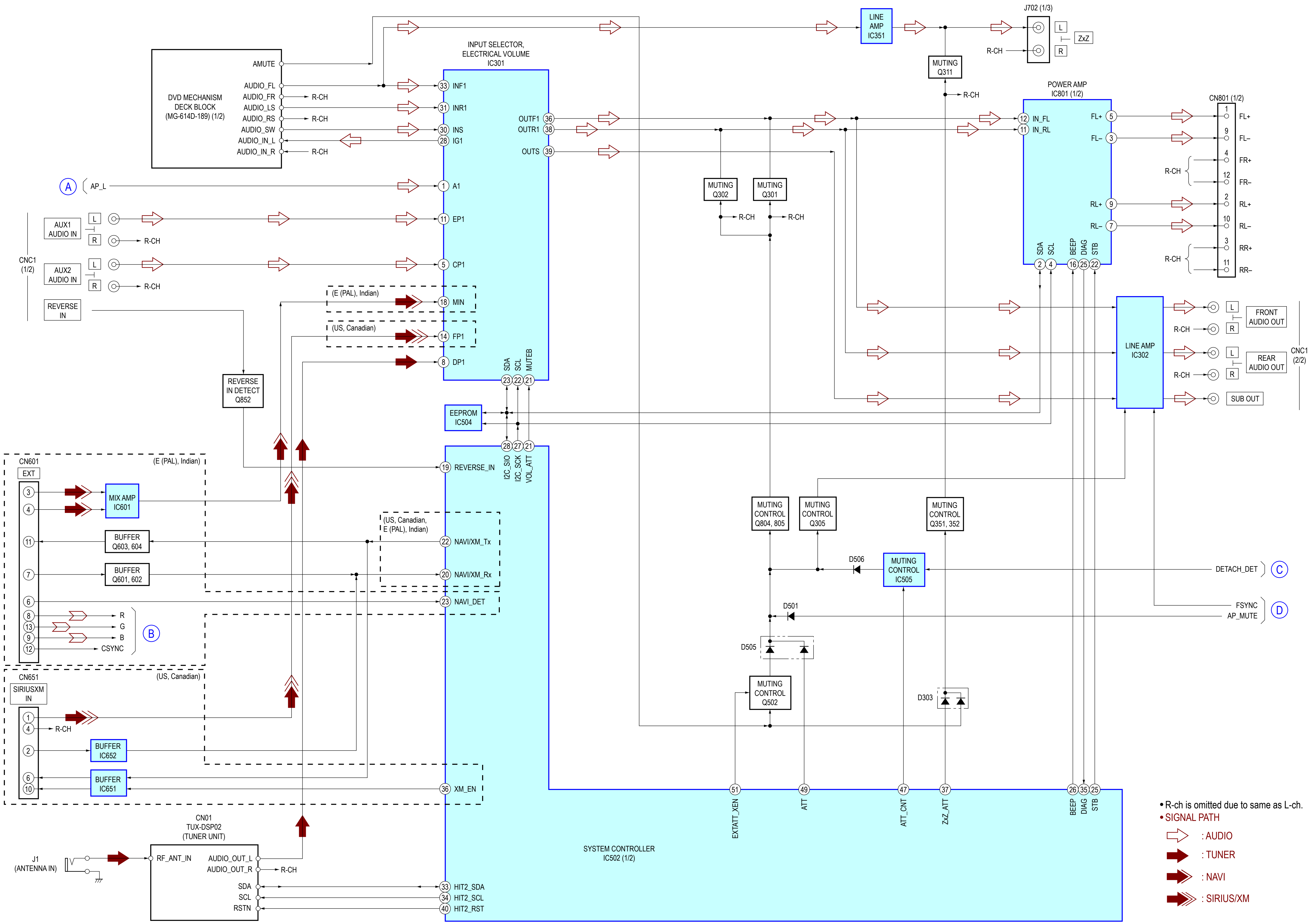
Releasing method:

Press the [OFF] button on the remote commander.

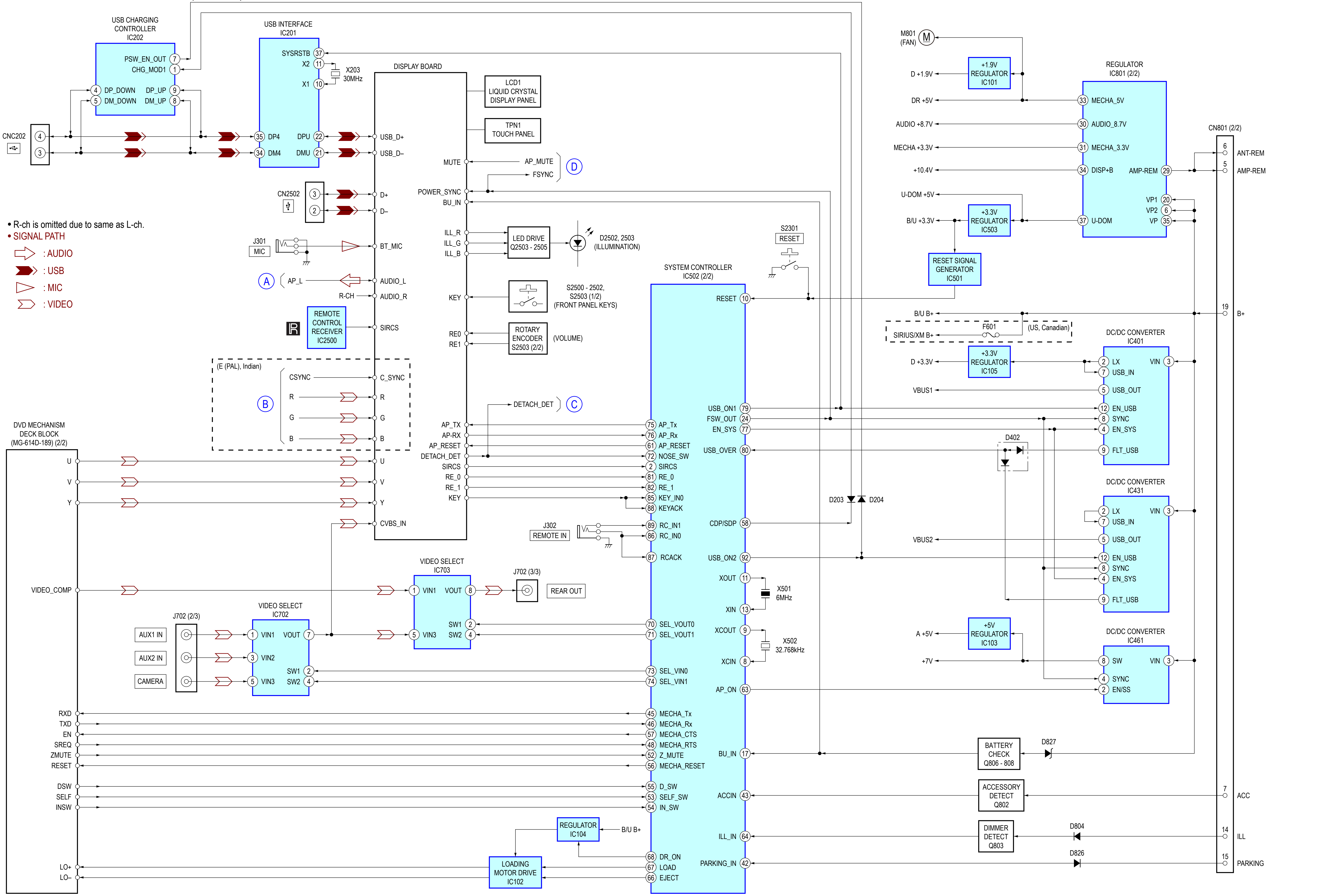
MEMO

SECTION 5 DIAGRAMS

5-1. BLOCK DIAGRAM - AUDIO Section -



5-2. BLOCK DIAGRAM - VIDEO, PANEL, POWER SUPPLY Section -



THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)

For Printed Wiring Boards.
Note:
- o——— : Parts extracted from the component side.
- ——— : Parts extracted from the conductor side.
- △ : Internal component.
- ▬ : Pattern from the side which enables seeing.
  (The other layers' patterns are not indicated.)

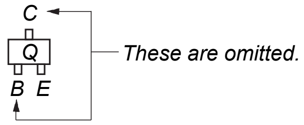
Caution:

Pattern face side: (Conductor Side)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component Side)	Parts on the parts face side seen from the parts face are indicated.

Caution:

Pattern face side: (SIDE B)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (SIDE A)	Parts on the parts face side seen from the parts face are indicated.

- Indication of transistor.



- Abbreviation
  CND : Canadian model
  IND : Indian model
  RU : Russian model

Note: When the complete MAIN board is replaced, the destination setting is necessary. Refer to "NOTE THE MAIN BOARD OR SYSTEM CONTROLLER (IC502) REPLACING" on page 5.

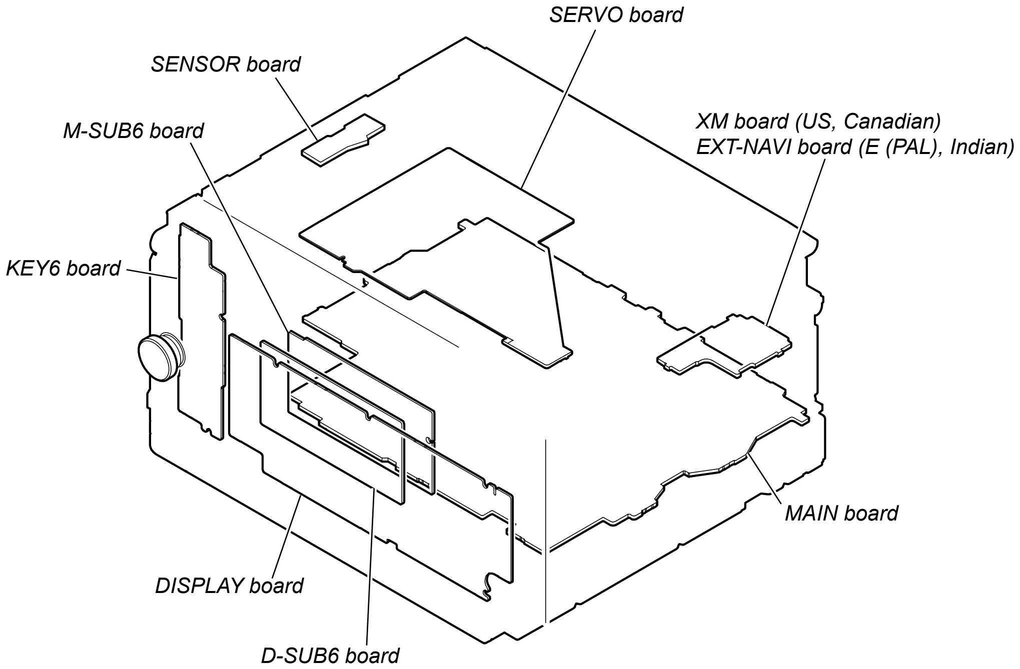
For Schematic Diagrams.
Note:
- All capacitors are in μF unless otherwise noted. (p: pF) 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : Internal component.
- ▭ : Panel designation.

Note:	**Note:**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

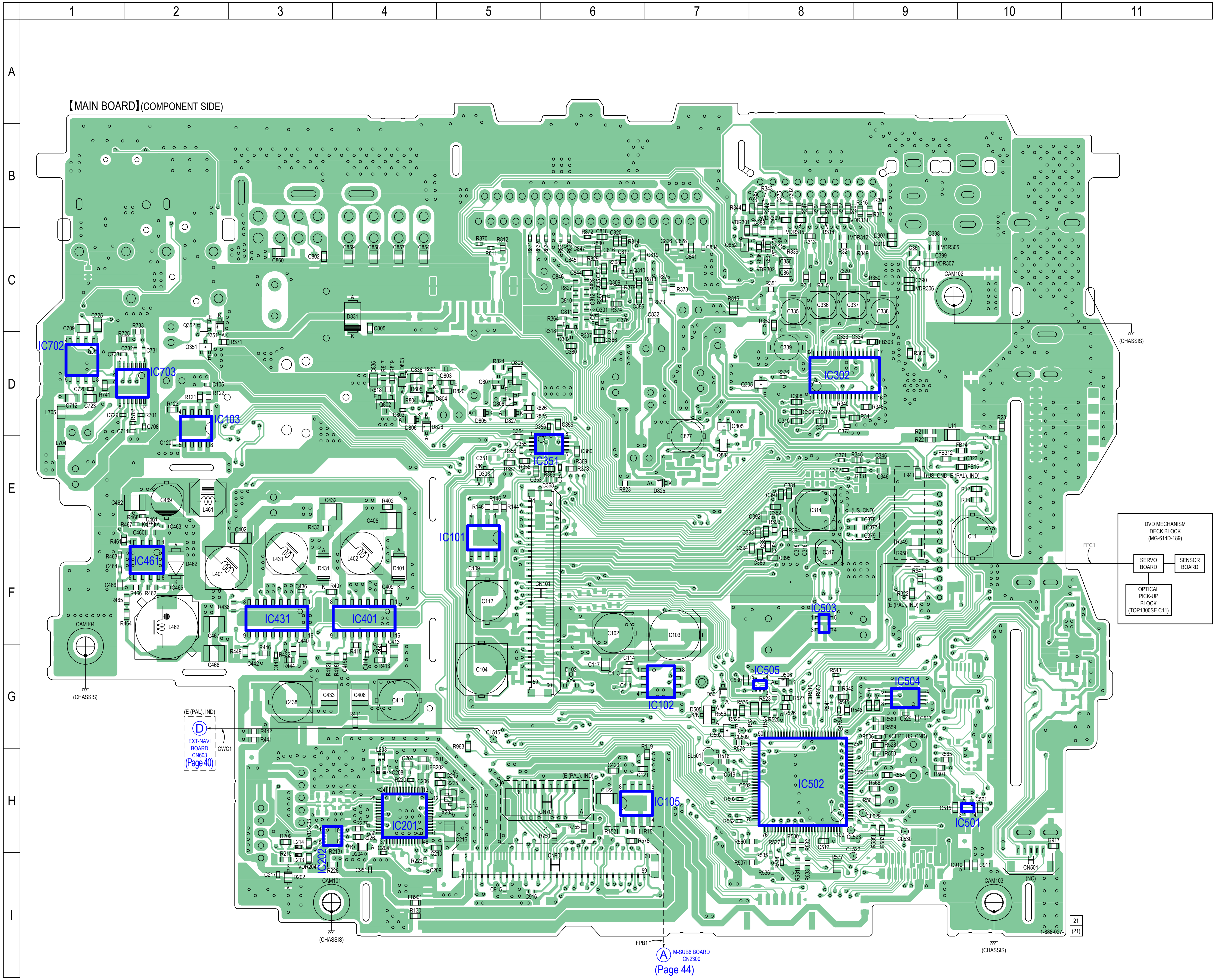
- ▬▬ : B+ Line.
- ▬ ▬ ▬ : B– Line.
- Power voltage is dc 14.4V and fed with regulated dc power supply from ACC and BATT cords.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark: TUNER (FM)
- Voltages are taken with VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : AUDIO
  : USB
  ➡ : TUNER
  ▷ : MIC
  : NAVI
  : SIRIUS/XM
  : VIDEO
- Abbreviation
  CND : Canadian model
  IND : Indian model
  RU : Russian model

Note: When the complete MAIN board is replaced, the destination setting is necessary. Refer to "NOTE THE MAIN BOARD OR SYSTEM CONTROLLER (IC502) REPLACING" on page 5.

- **Circuit Boards Location**



5-3. PRINTED WIRING BOARDS - MAIN Section (1/2) - • See page 33 for Circuit Boards Location. • : Uses unleaded solder.

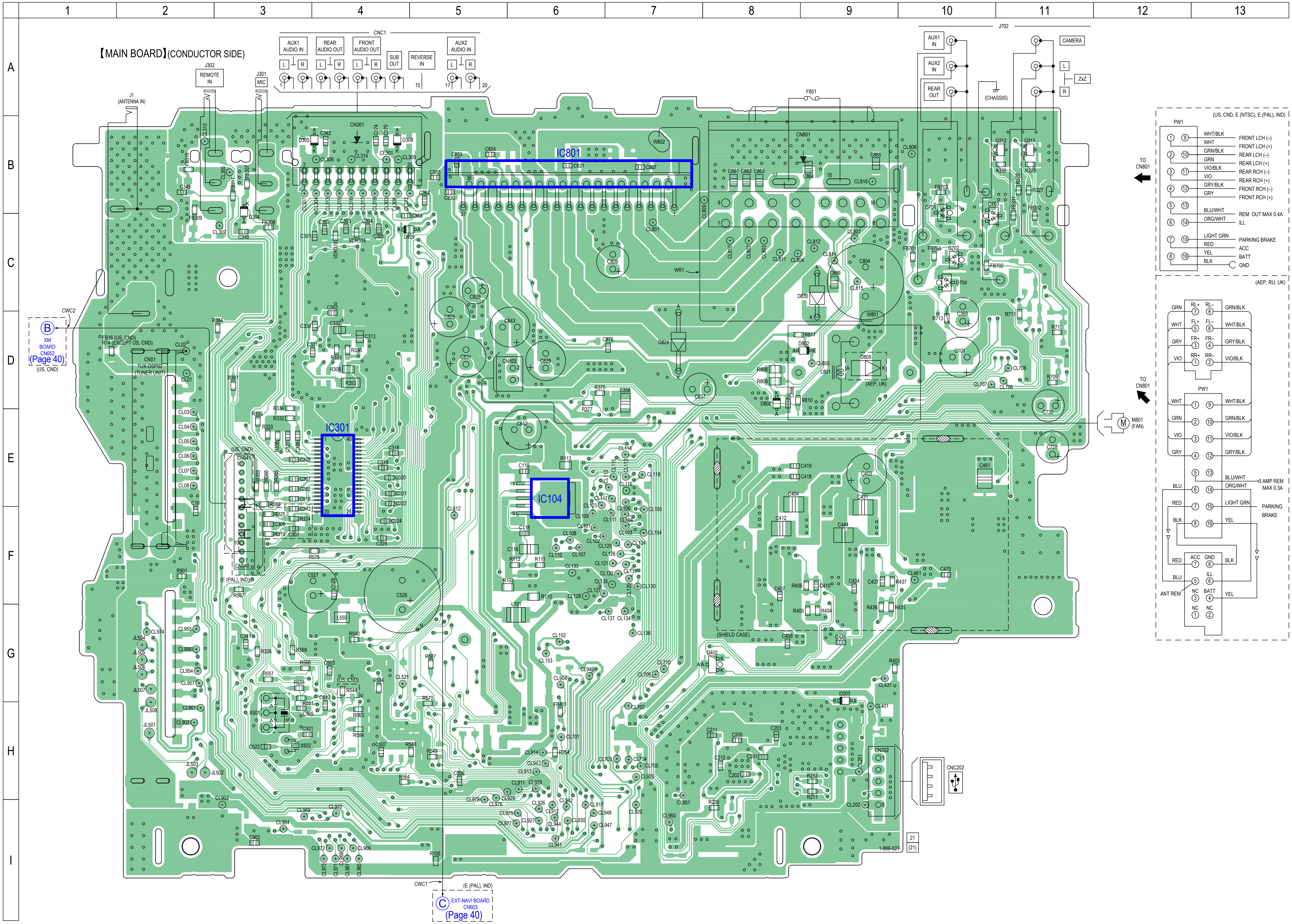


Note 1: When IC502 is replaced, the destination setting is necessary. Refer to "NOTE THE MAIN BOARD OR SYSTEM CONTROLLER (IC502) REPLACING" on page 5.

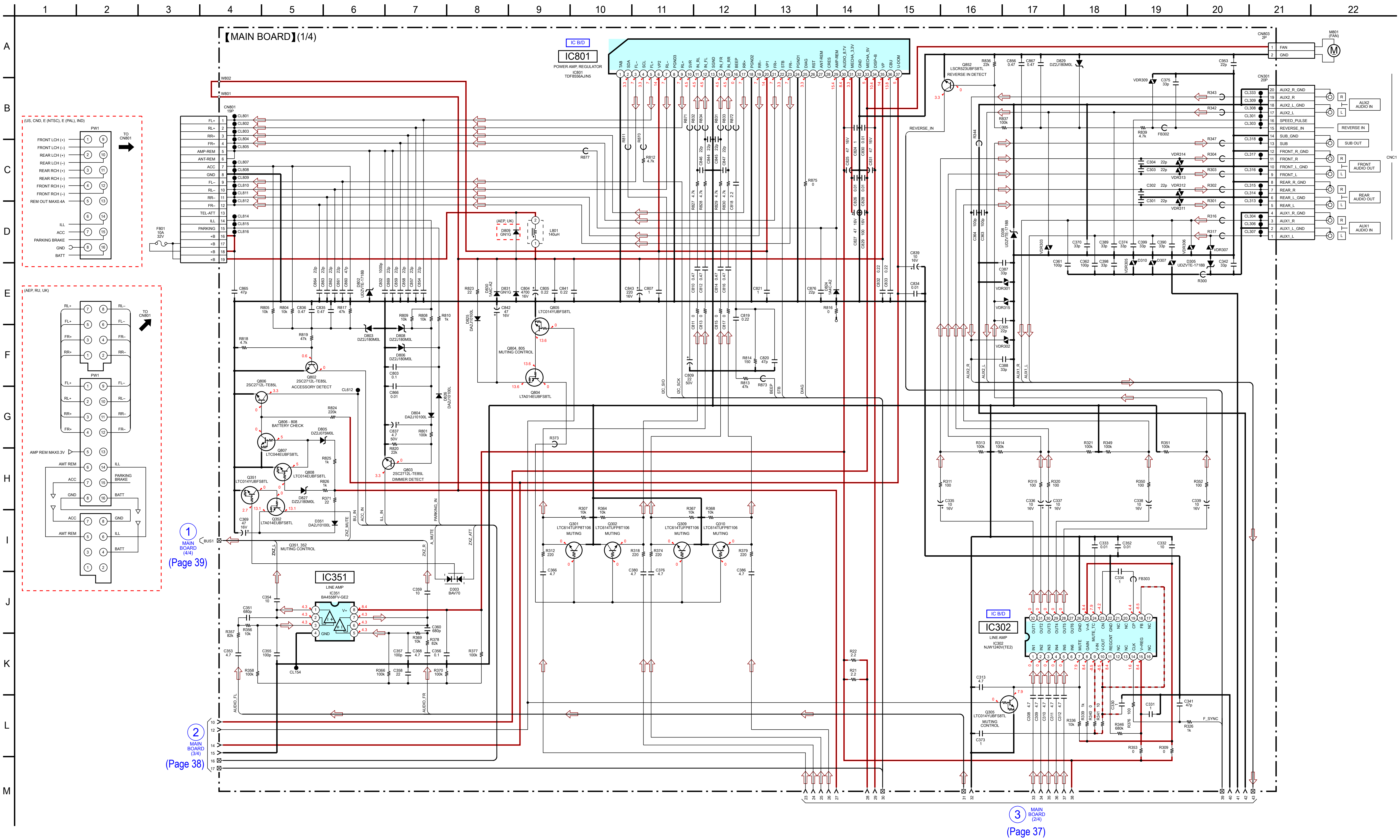
Note 2: CN101 and CN901 on the MAIN board cannot exchange with single. When these parts are damaged, exchange the complete mounted board.

Note 3: The service manual of the mechanism deck, used in this model, has been issued in a separate volume. Please refer to the service manual of the MG-614 series for the mechanism deck information.

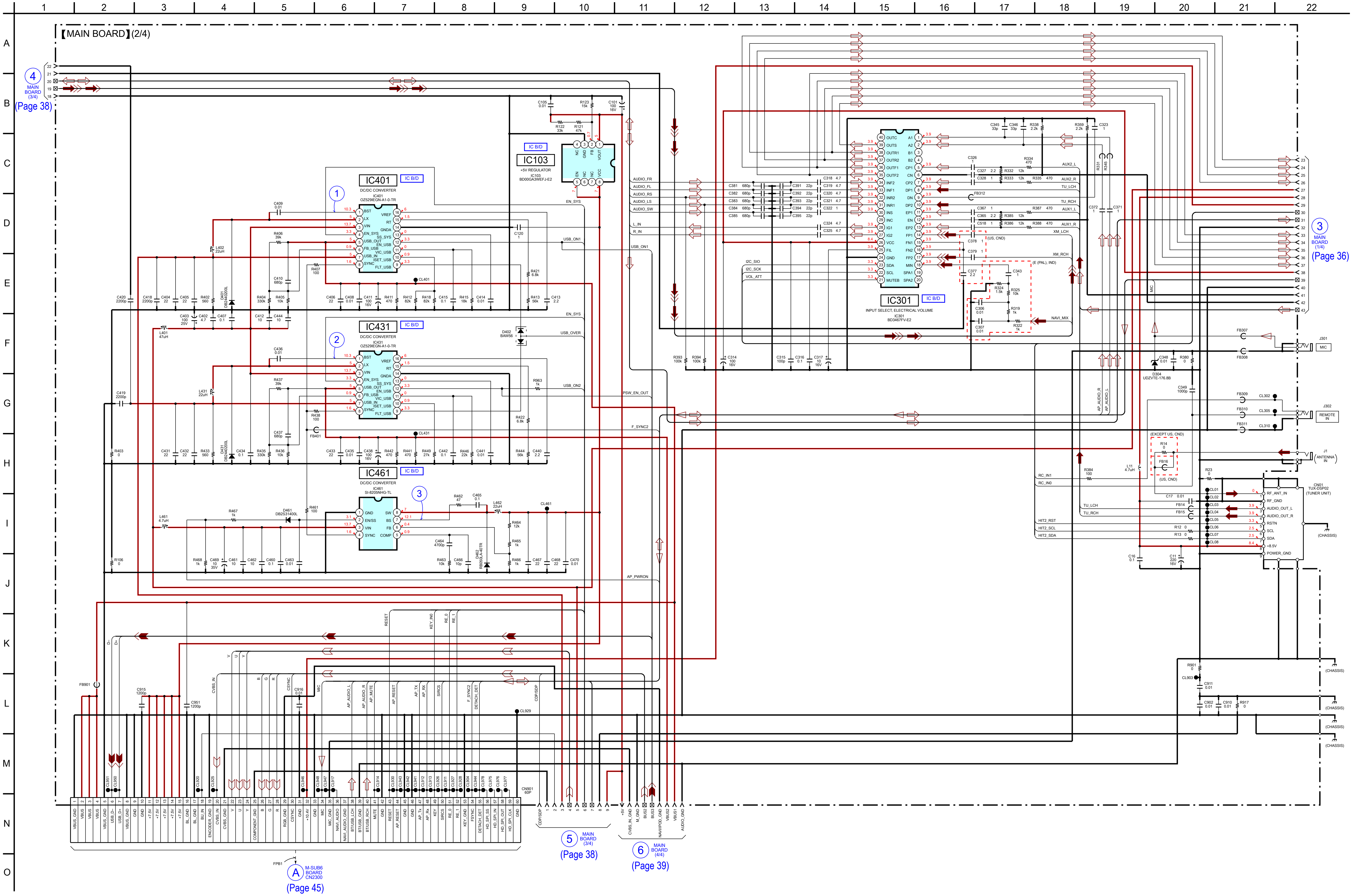
5-4. PRINTED WIRING BOARD - MAIN Section (2/2) - • See page 33 for Circuit Boards Location. • : Uses unleaded solder.



5-5. SCHEMATIC DIAGRAM - MAIN Section (1/4) - • See page 48 for IC Block Diagrams.

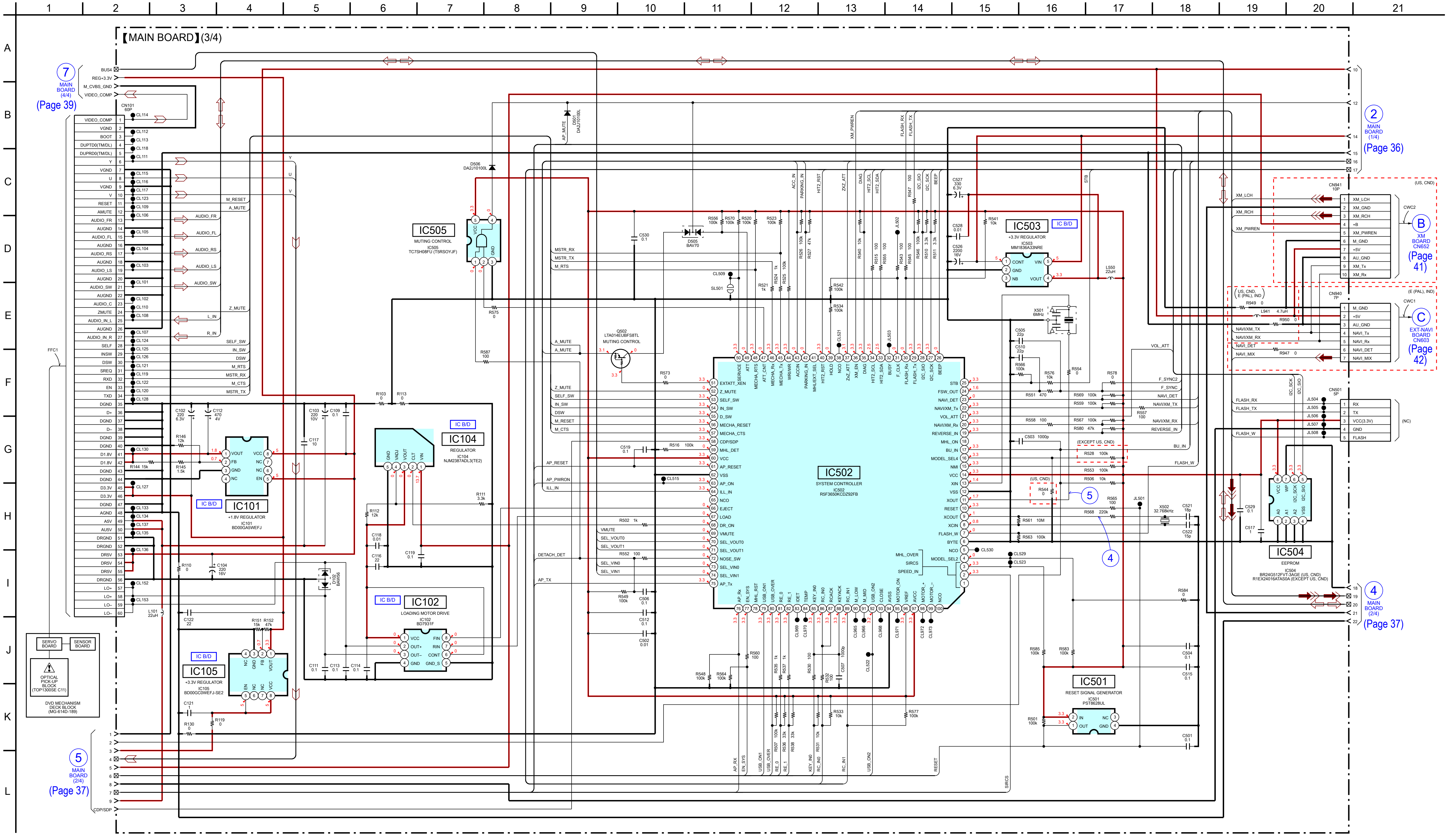


5-6. SCHEMATIC DIAGRAM - MAIN Section (2/4) - • See page 41 for Waveforms. • See page 48 for IC Block Diagrams.



Note: CN901 on the MAIN board cannot exchange with single. When this part is damaged, exchange the complete mounted board.

5-7. SCHEMATIC DIAGRAM - MAIN Section (3/4) - • See page 41 for Waveforms. • See page 48 for IC Block Diagrams. • See page 53 for IC Pin Function Description.



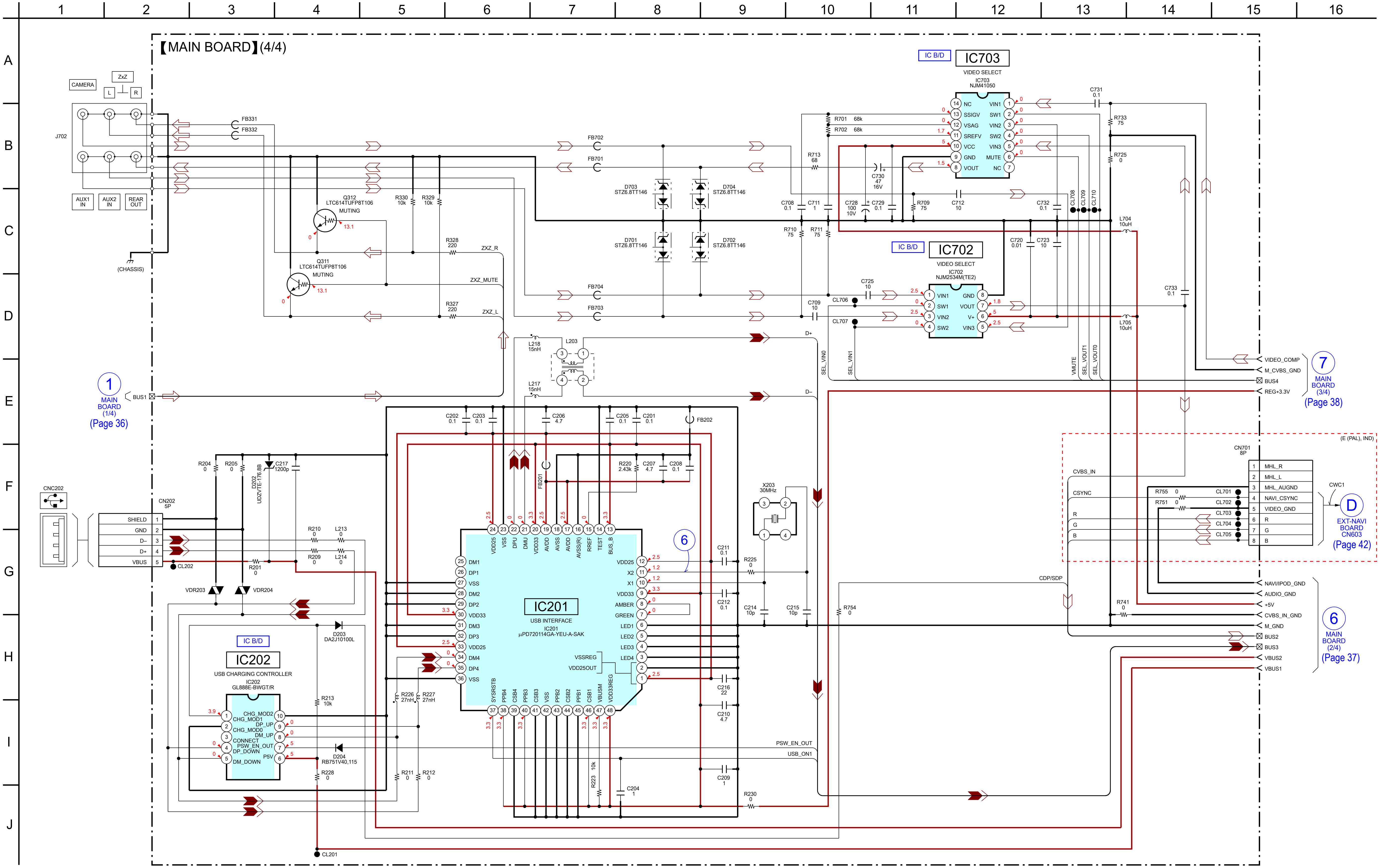
Note 1: CN101 on the MAIN board cannot exchange with single. When this part is damaged, exchange the complete mounted board.

Note 2: The service manual of the mechanism deck, used in this model, has been issued in a separate volume. Please refer to the service manual of the MG-614 series for the mechanism deck information.

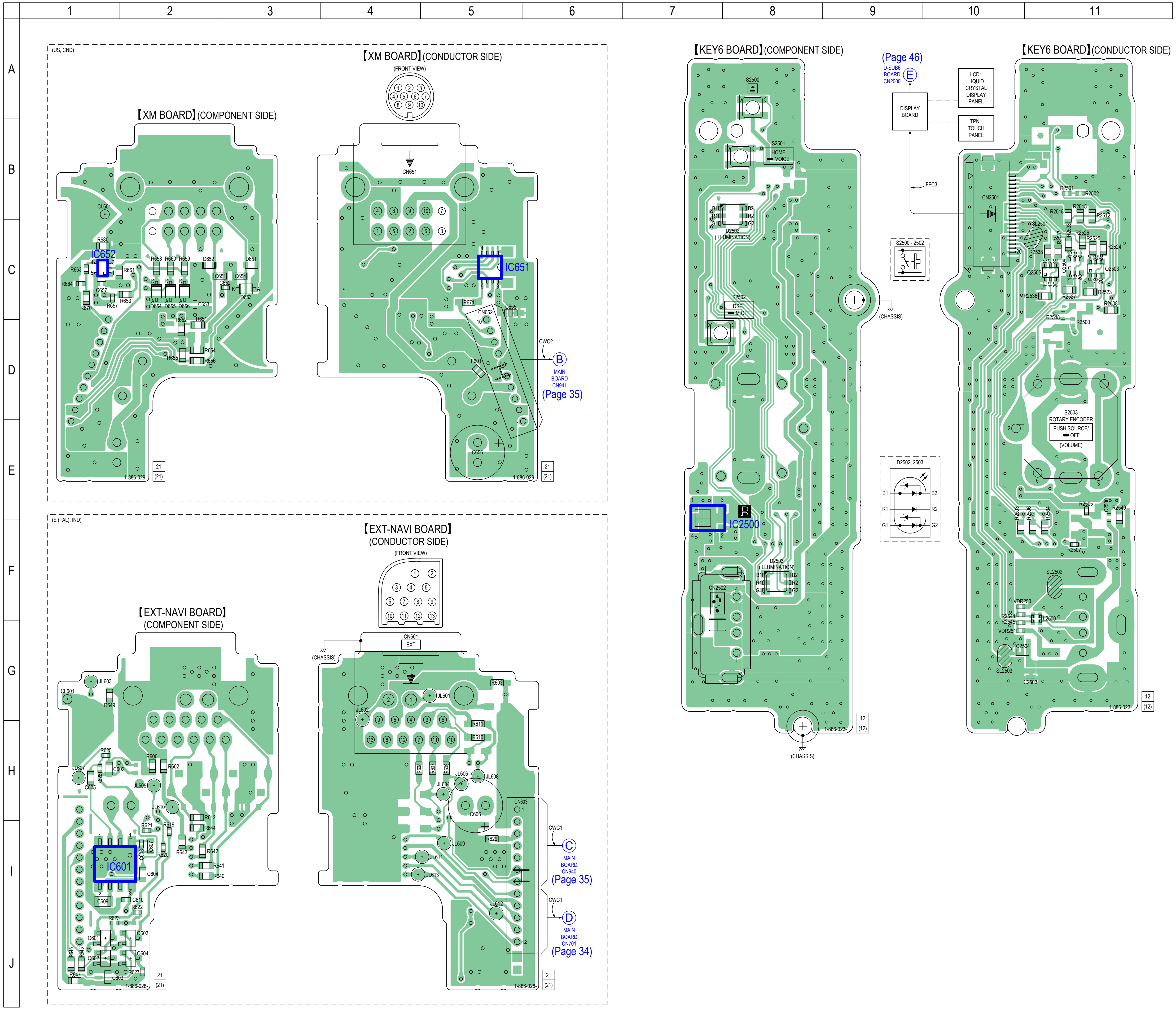
Note 3: When IC502 is replaced, the destination setting is necessary. Refer to "NOTE THE MAIN BOARD OR SYSTEM CONTROLLER (IC502) REPLACING" on page 5.

5-8. SCHEMATIC DIAGRAM - MAIN Section (4/4) -

• See page 41 for Waveforms. • See page 48 for IC Block Diagrams. • See page 53 for IC Pin Function Description.



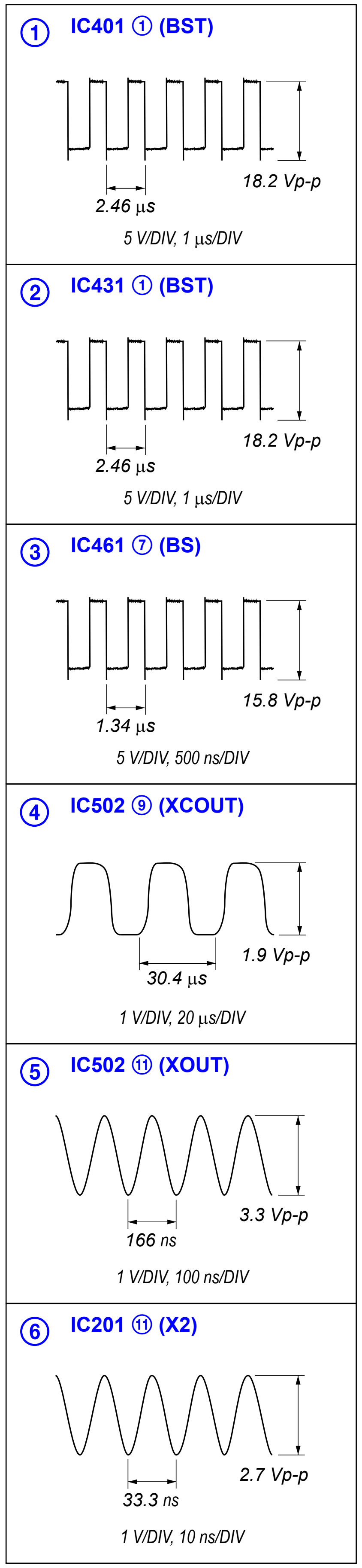
5-9. PRINTED WIRING BOARDS - EXTERNAL TERMINAL, PANEL Section - • See page 33 for Circuit Boards Location. • : Uses unleaded solder.



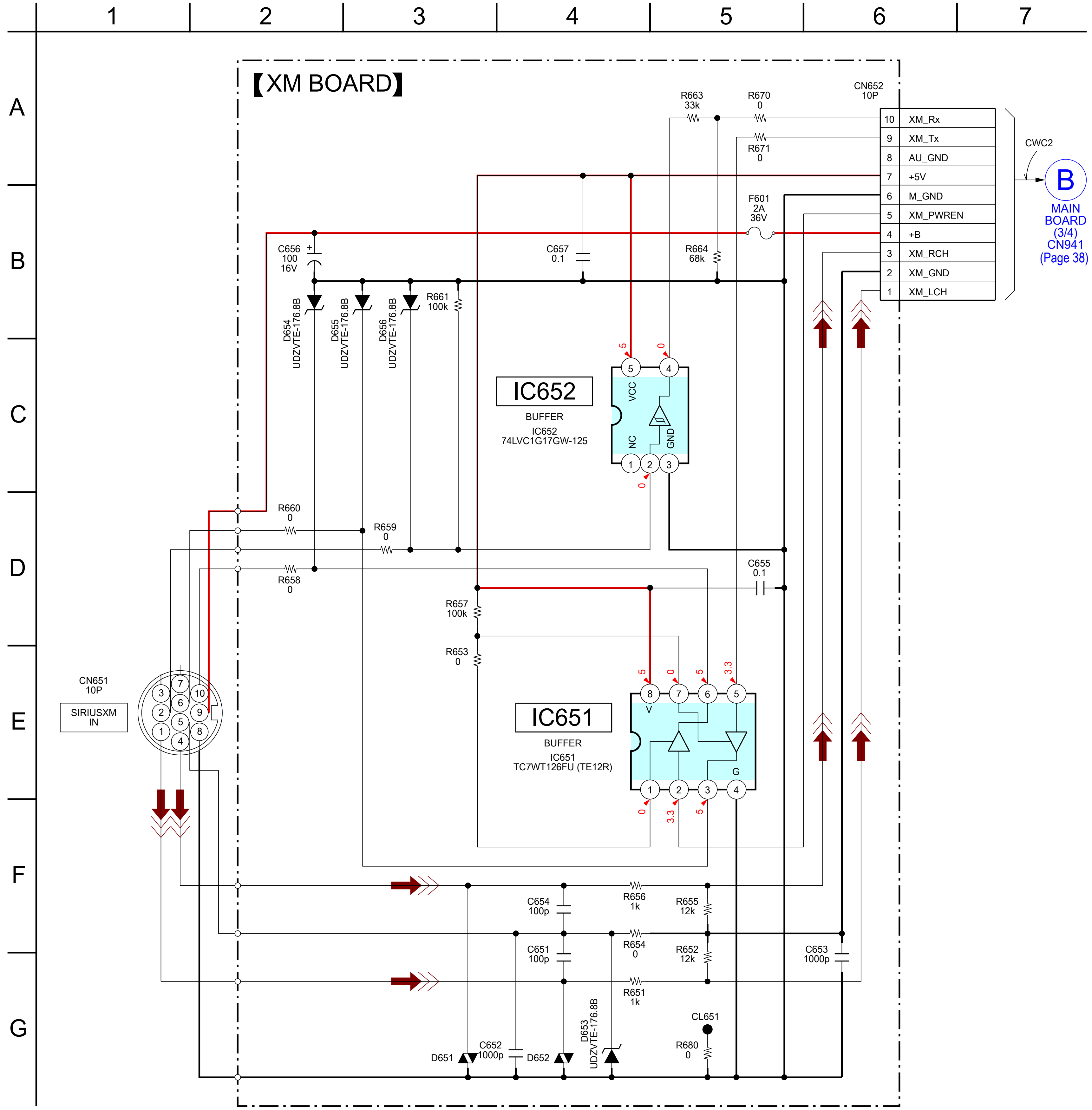
Note: When DISPLAY board is defective, exchange the complete mounted board, and exchanged old complete DISPLAY board and is destroyed with the hammer, and throw out it.

- **Waveforms**

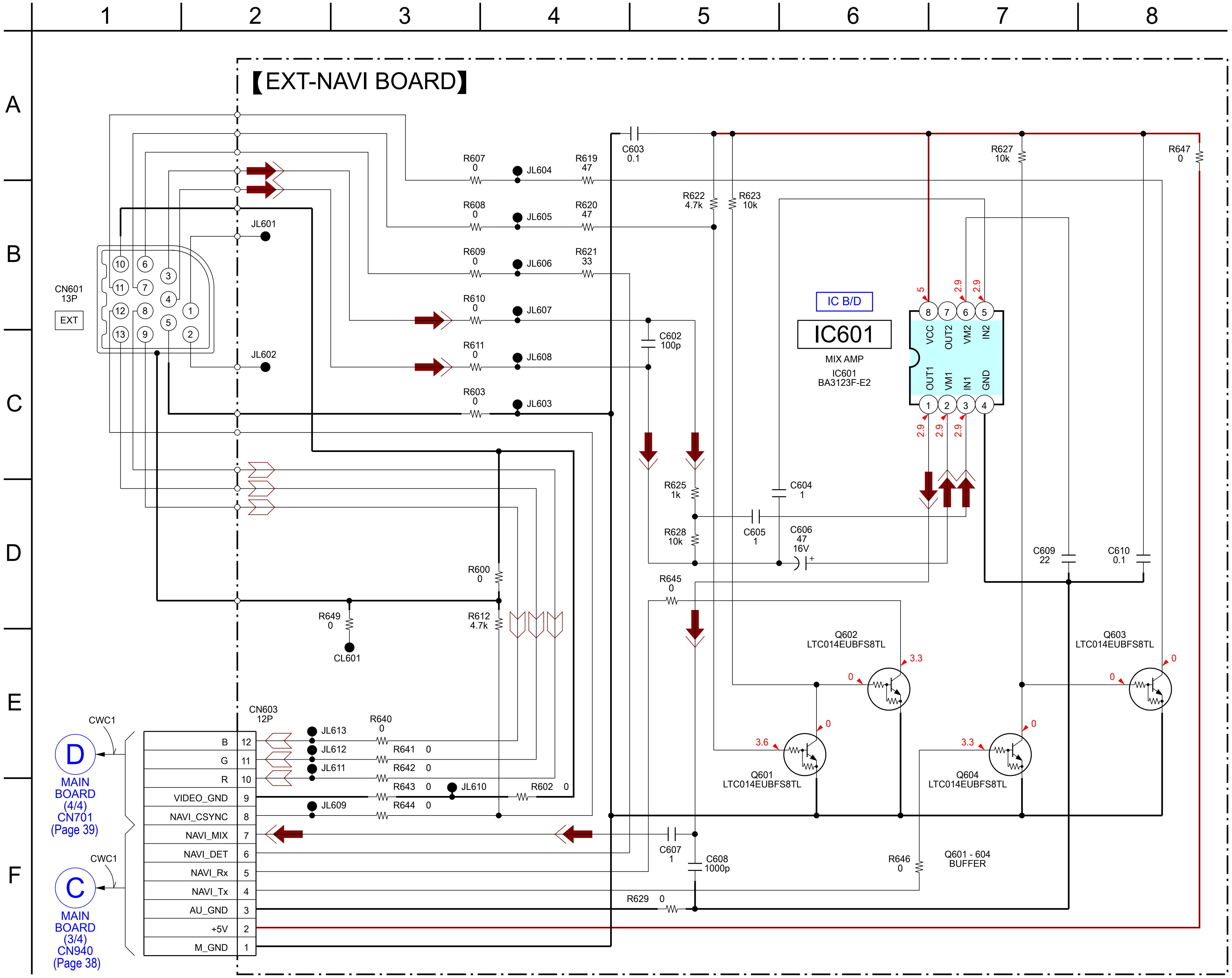
– MAIN Board –



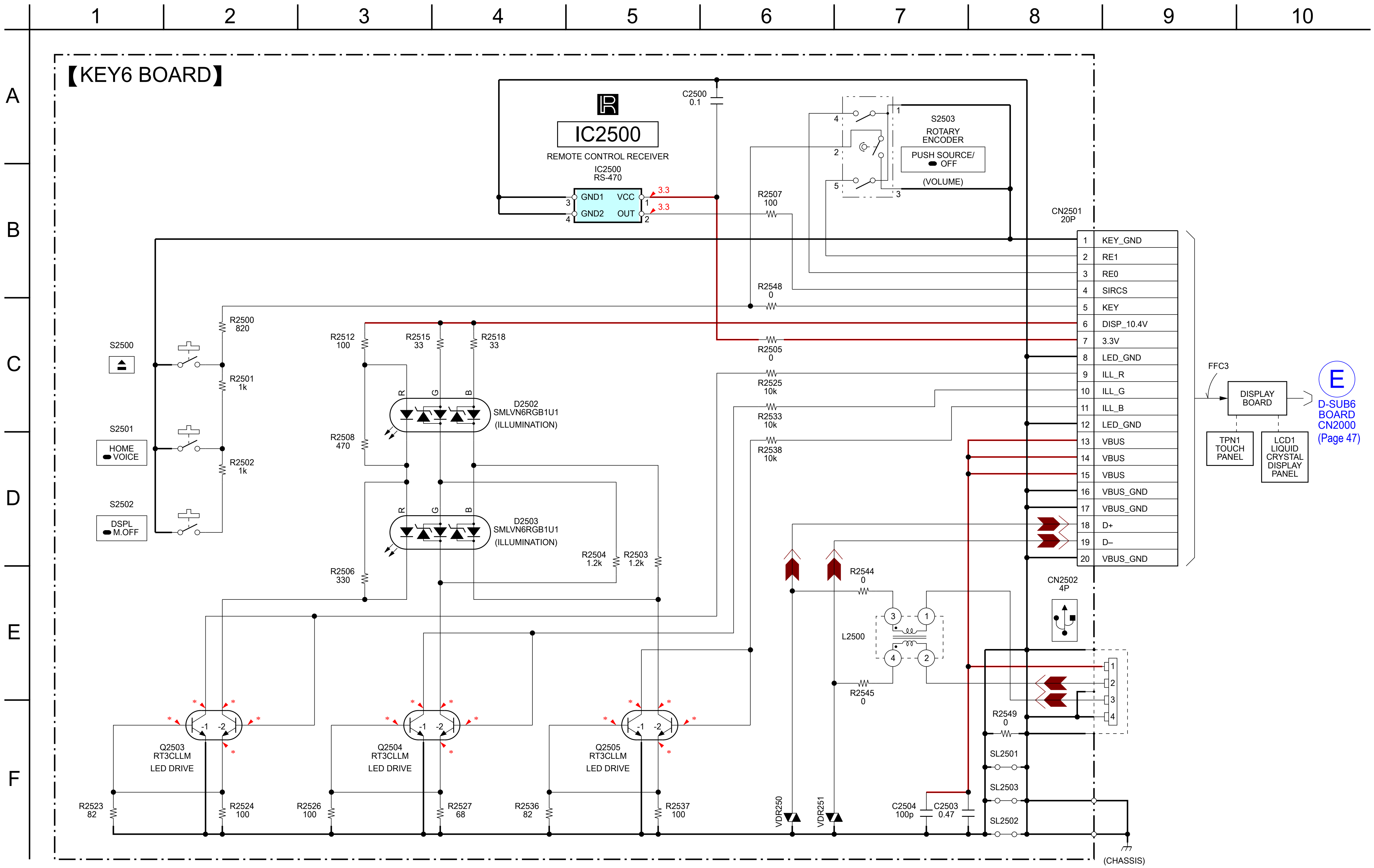
5-10. SCHEMATIC DIAGRAM - XM Board (US and Canadian models) -



5-11. SCHEMATIC DIAGRAM - EXT-NAVI Board (E (PAL) and Indian models) - • See page 48 for IC Block Diagrams.



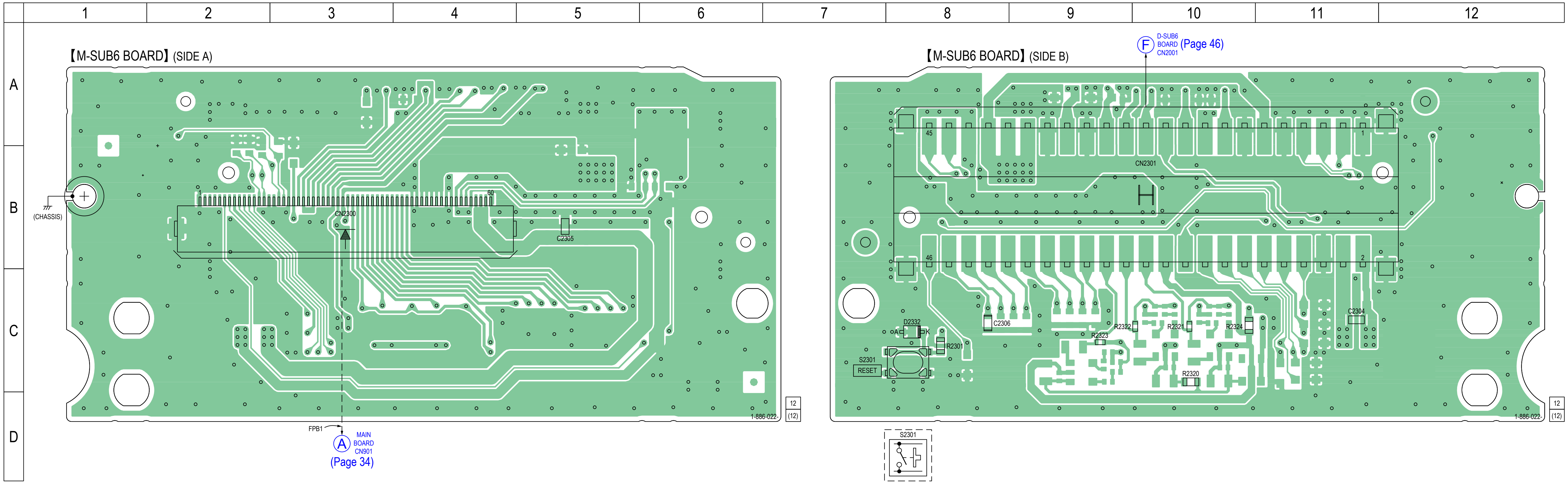
5-12. SCHEMATIC DIAGRAM - PANEL Section -



Note: When DISPLAY board is defective, exchange the complete mounted board, and exchanged old complete DISPLAY board and is destroyed with the hammer, and throw out it.

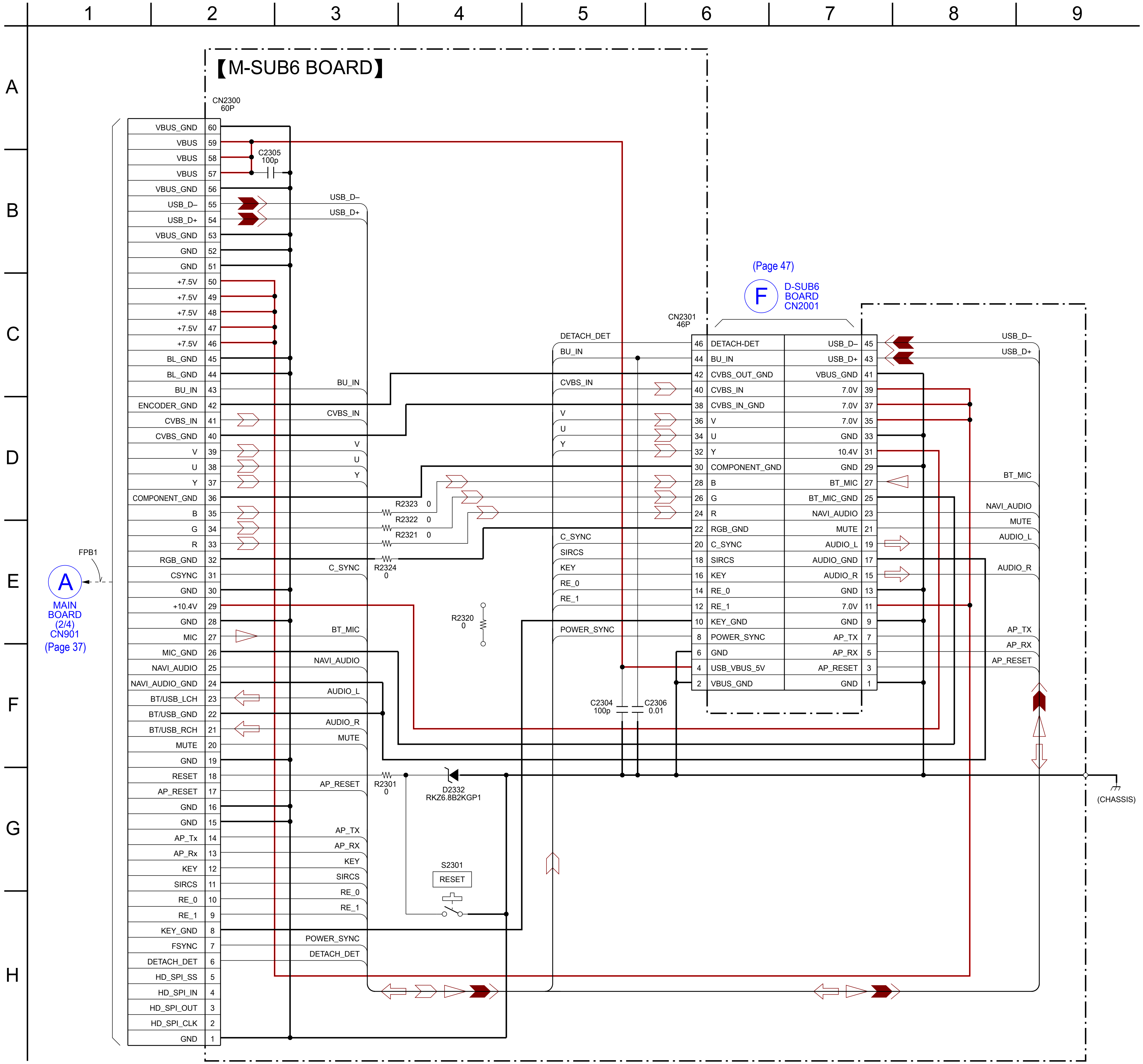
5-13. PRINTED WIRING BOARD - M-SUB6 Board -

• See page 33 for Circuit Boards Location. • : Uses unleaded solder.



Note: CN2300 on the M-SUB6 board cannot exchange with single. When this part is damaged, exchange the complete mounted board.

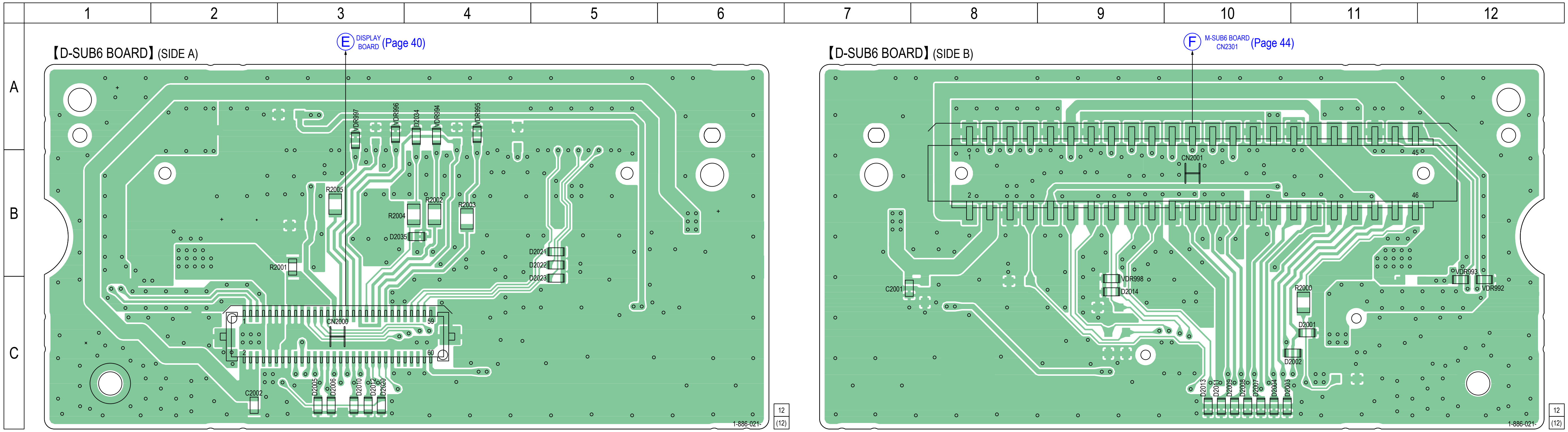
5-14. SCHEMATIC DIAGRAM - M-SUB6 Board -



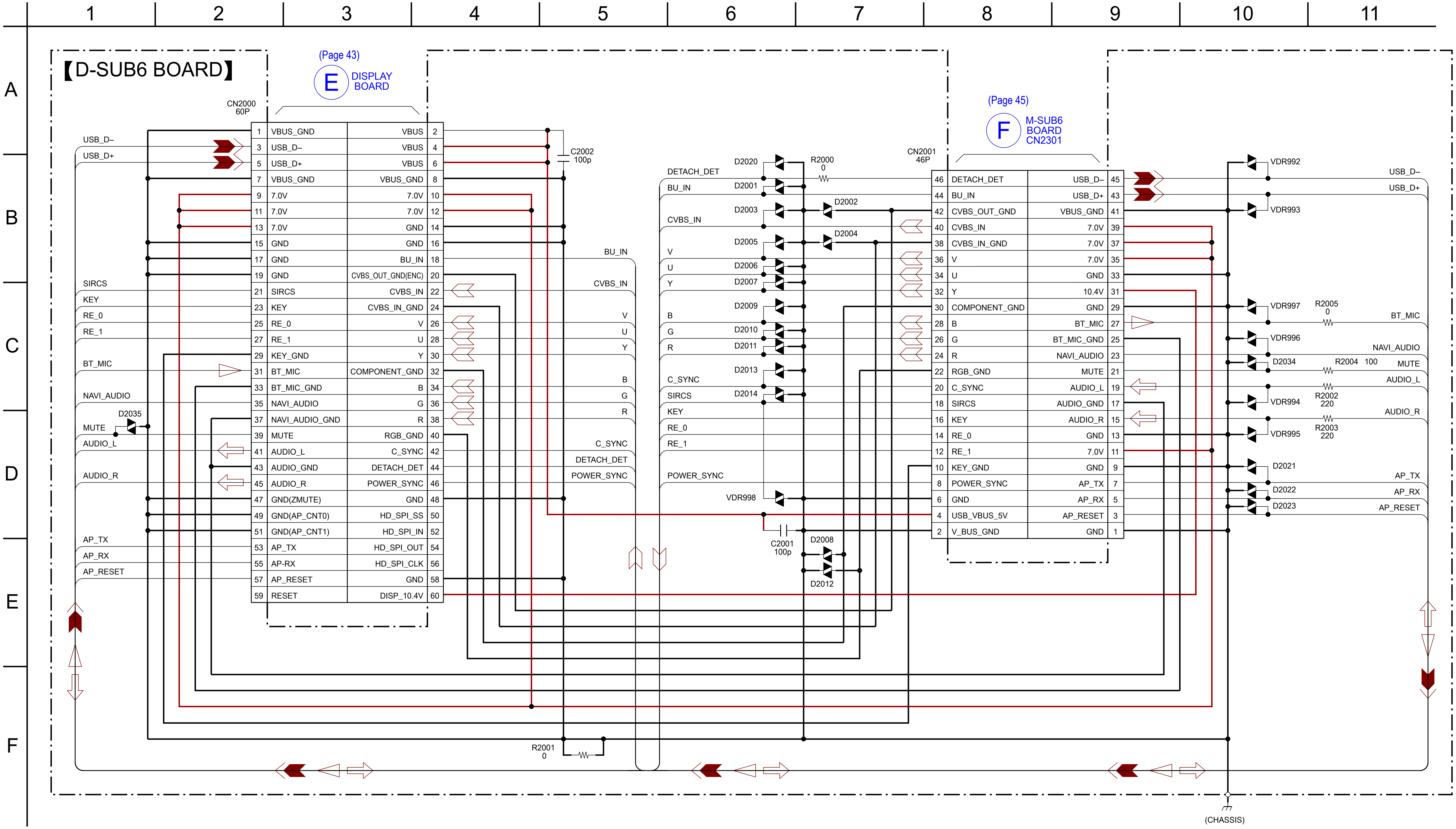
Note: CN2300 on the M-SUB6 board cannot exchange with single. When this part is damaged, exchange the complete mounted board.

5-15. PRINTED WIRING BOARD - D-SUB6 Board -

• See page 33 for Circuit Boards Location. • : Uses unleaded solder.



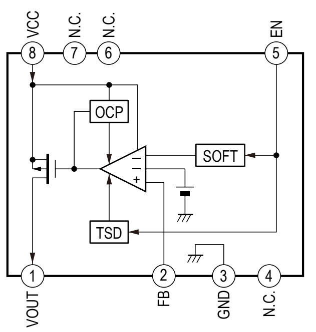
5-16. SCHEMATIC DIAGRAM - D-SUB6 Board -



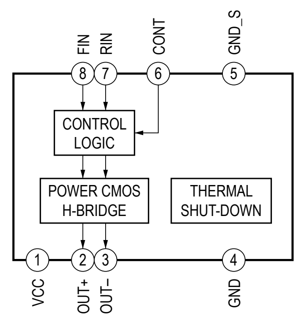
• **IC Block Diagrams**

– MAIN Board –

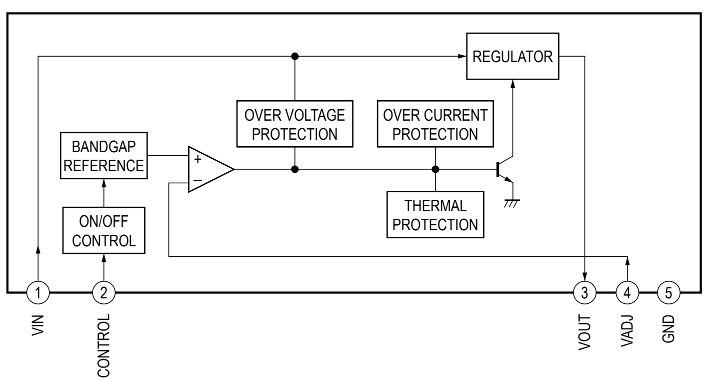
IC101 BD00GA5WEFJ-E2
IC103 BD00GA3WEFJ-E2
IC105 BD00GC0WEFJ-SE2



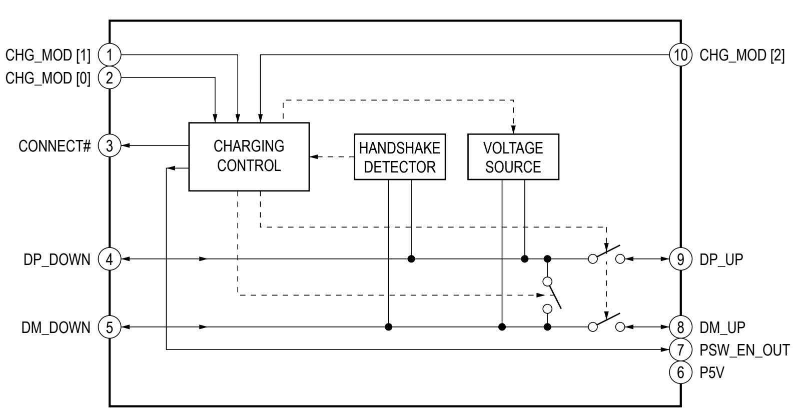
IC102 BD7931F



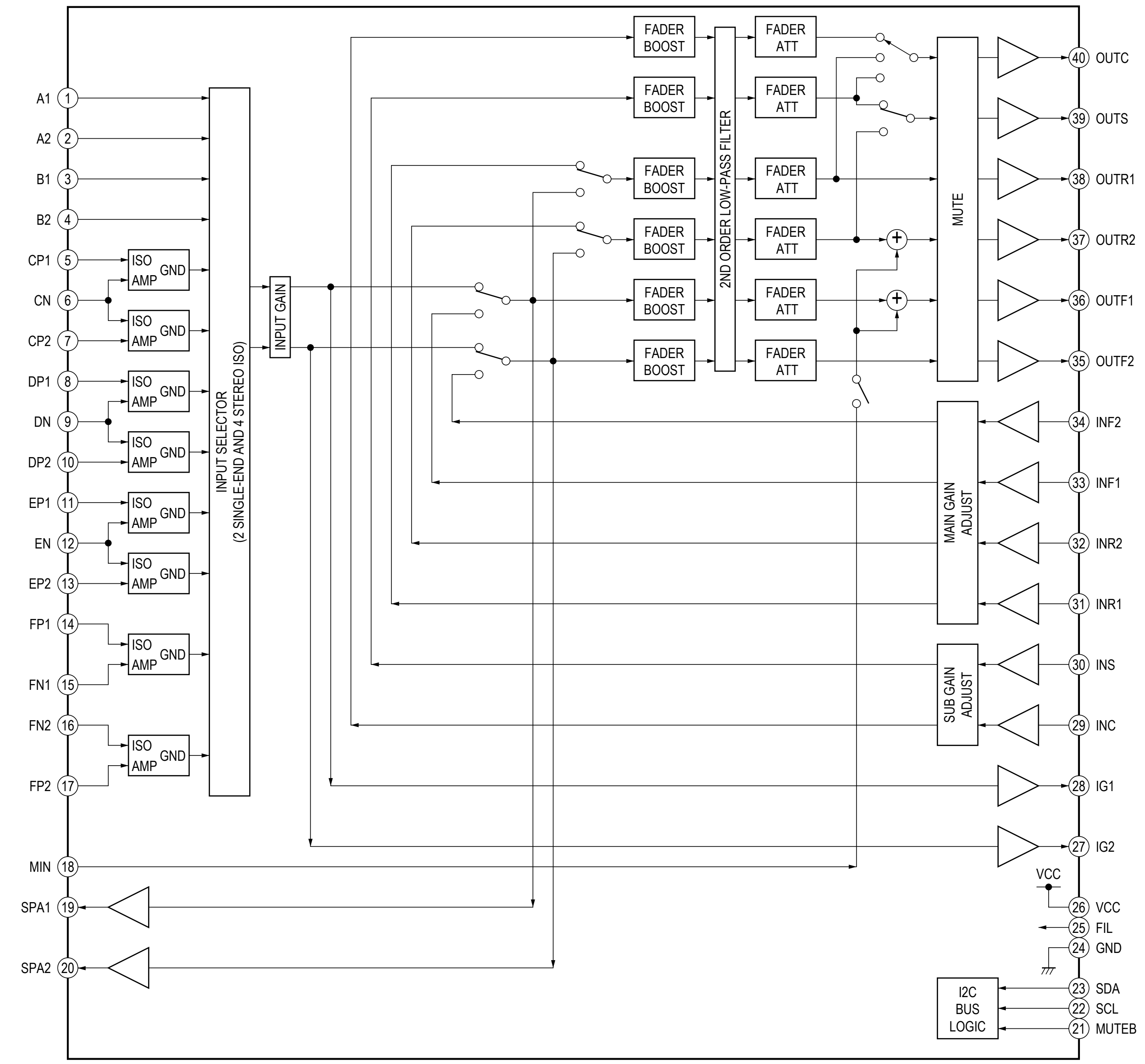
IC104 NJM2387ADL3 (TE2)



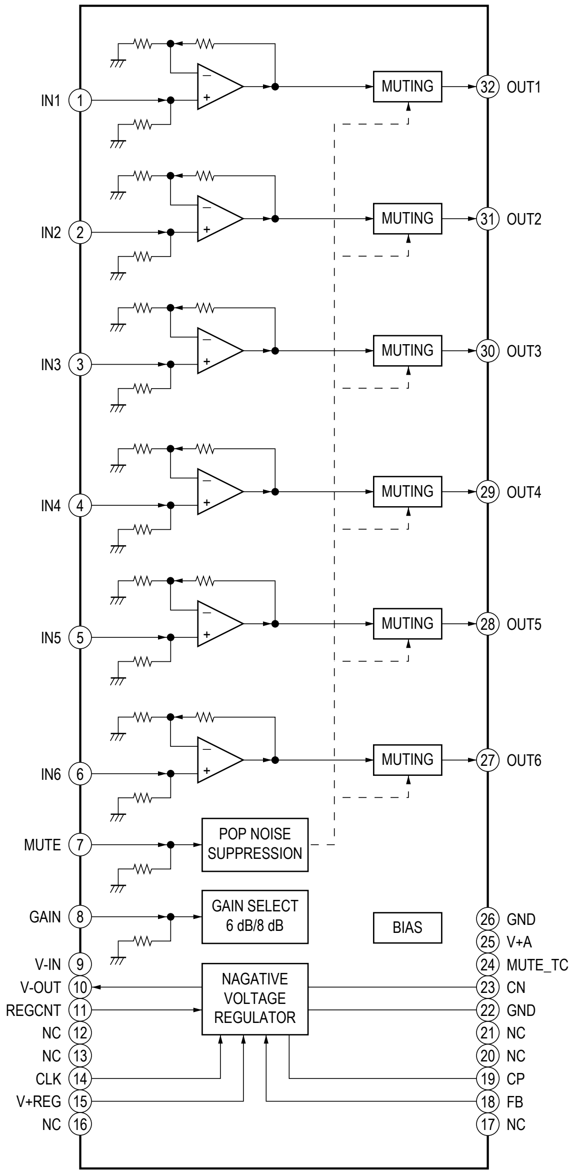
IC202 GL888E-BWGT/R



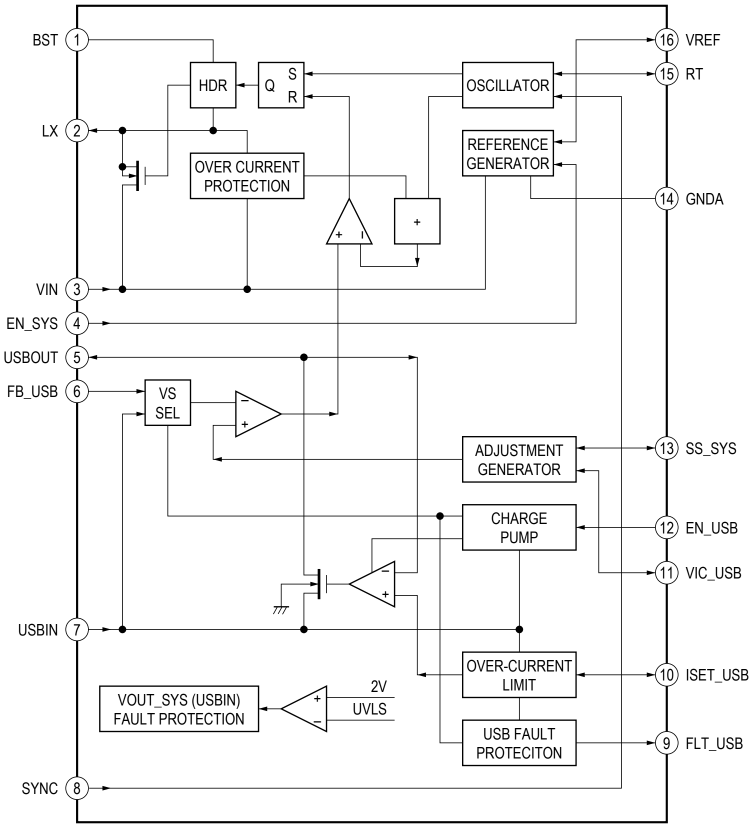
IC301 BD3467FV-E2



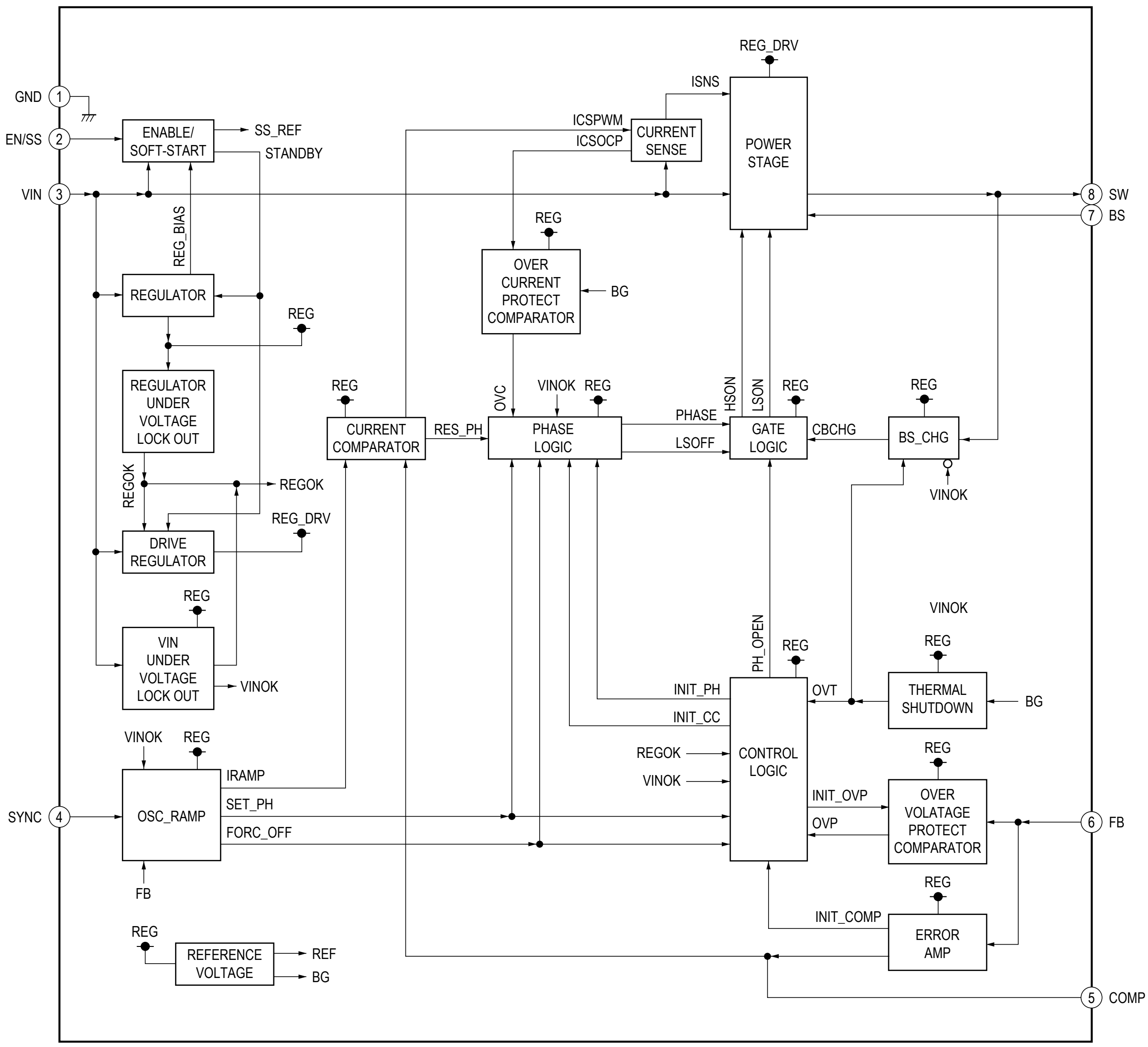
IC302 NJW1240V (TE2)



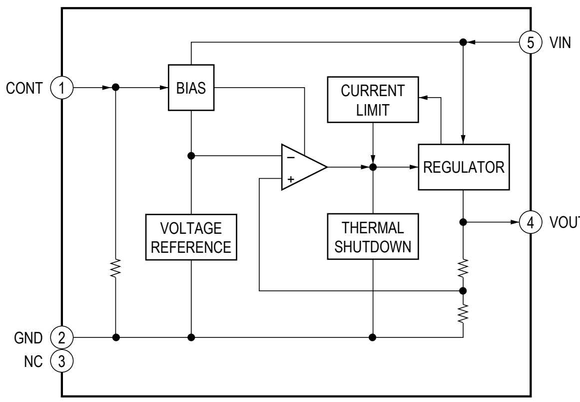
IC401, 431 OZ529IEGN-A1-0-TR



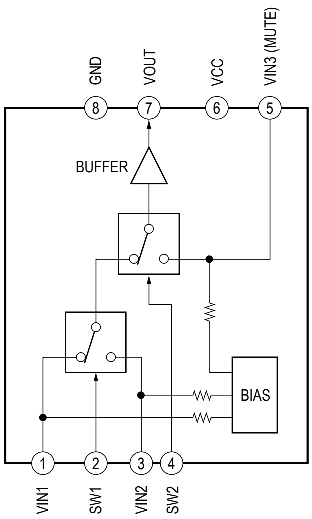
IC461 SI-8205NHG-TL



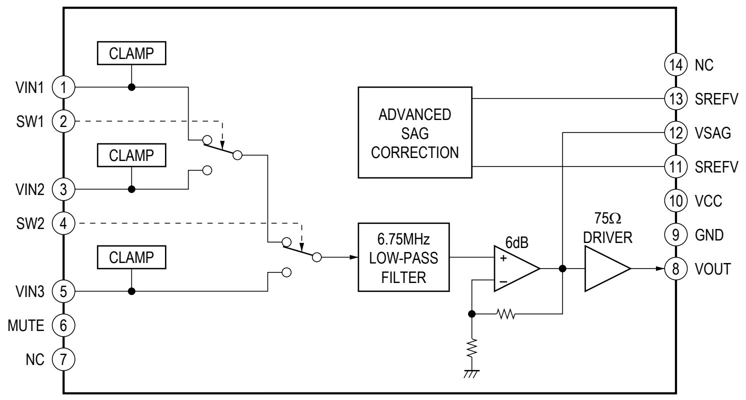
IC503 MM1836A33NRE



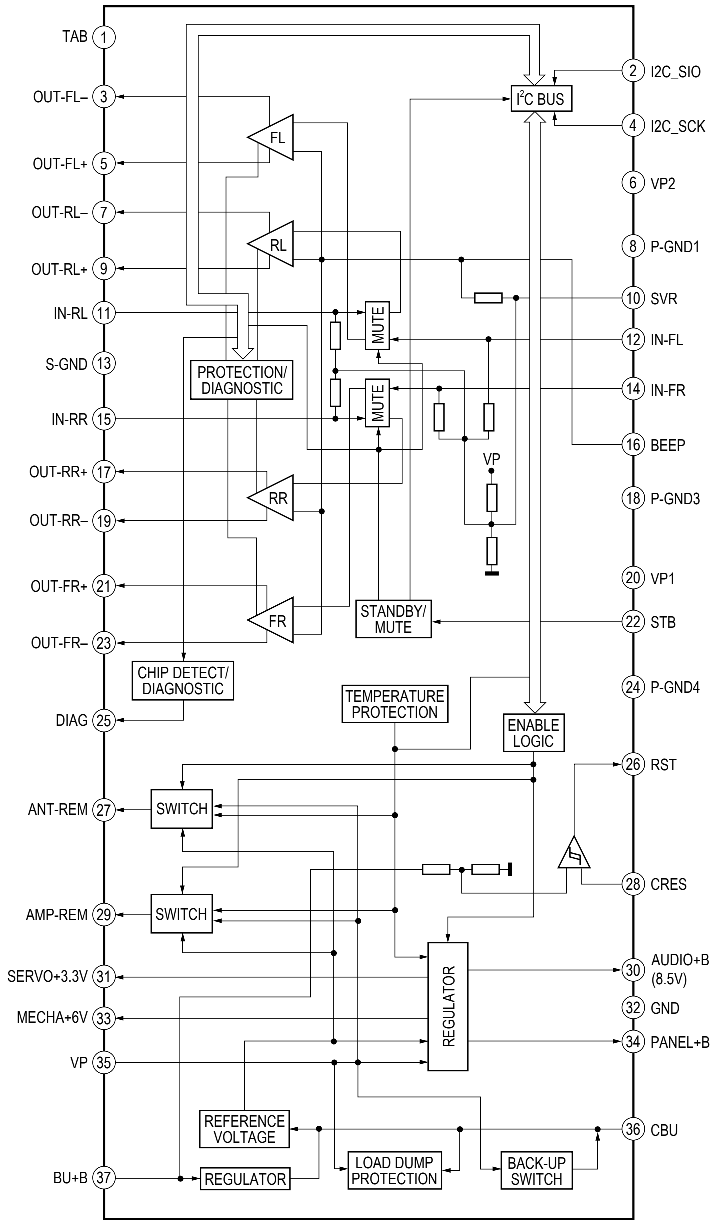
IC702 NJM2534M (TE2)



IC703 NJM41050V (TE2)

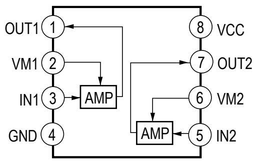


IC801 TDF8556AJ/N5



– EXT-NAVI Board –

IC601 BA3123F-E2



- **IC Pin Function Description**

MAIN BOARD IC201 μPD720114GA-YEU-A-SAK (USB INTERFACE)

Pin No.	Pin Name	I/O	Description
1	VDD25OUT	O	Internal regulator power supply voltage (+2.5V) output terminal
2	VSSREG	-	Ground terminal (for internal regulator)
3 to 6	LED4 to LED1	-	Not used
7	GREEN	-	Not used
8	AMBER	-	Not used
9	VDD33	-	Power supply terminal (+3.3V)
10	X1	I	System clock input terminal (30 MHz)
11	X2	O	System clock output terminal (30 MHz)
12	VDD25	-	Power supply terminal (+2.5V)
13	BUS_B	I	Power supply setting terminal Fixed at “H” in this unit
14	TEST	I	Test mode control signal input terminal
15	RREF	-	Reference resistor connection terminal
16	AVSS (R)	-	Ground terminal
17	AVDD	-	Power supply terminal (+2.5V)
18	AVSS	-	Ground terminal
19	AVDD	-	Power supply terminal (+2.5V)
20	VDD33	-	Power supply terminal (+3.3V)
21	DMU	I/O	Two-way USB data (negative) bus with the panel section
22	DPU	I/O	Two-way USB data (positive) bus with the panel section
23	VSS	-	Ground terminal
24	VDD25	-	Power supply terminal (+2.5V)
25	DM1	I/O	Two-way USB data (negative) bus terminal Not used
26	DP1	I/O	Two-way USB data (positive) bus terminal Not used
27	VSS	-	Ground terminal
28	DM2	I/O	Two-way USB data (negative) bus terminal Not used
29	DP2	I/O	Two-way USB data (positive) bus terminal Not used
30	VDD33	-	Power supply terminal (+3.3V)
31	DM3	I/O	Two-way USB data (negative) bus terminal Not used
32	DP3	I/O	Two-way USB data (positive) bus terminal Not used
33	VDD25	-	Power supply terminal (+2.5V)
34	DM4	I/O	Two-way USB data (negative) bus with the connection cord
35	DP4	I/O	Two-way USB data (positive) bus with the connection cord
36	VSS	-	Ground terminal
37	SYSRSTB	I	Power supply on/off control signal input form the system controller “H”: power on
38	PPB4	-	Not used
39	CSB4	-	Not used
40	PPB3	-	Not used
41	CSB3	-	Not used
42	VSS	-	Ground terminal
43	PPB2	-	Not used
44	CSB2	-	Not used
45	PPB1	-	Not used
46	CSB1	-	Not used
47	VBUSM	I	VBUS monitor terminal Not used
48	VDD33REG	I	Internal regulator power supply voltage (+3.3V) input terminal

MAIN BOARD IC502 R5F3650KCDZ92FB (SYSTEM CONTROLLER)

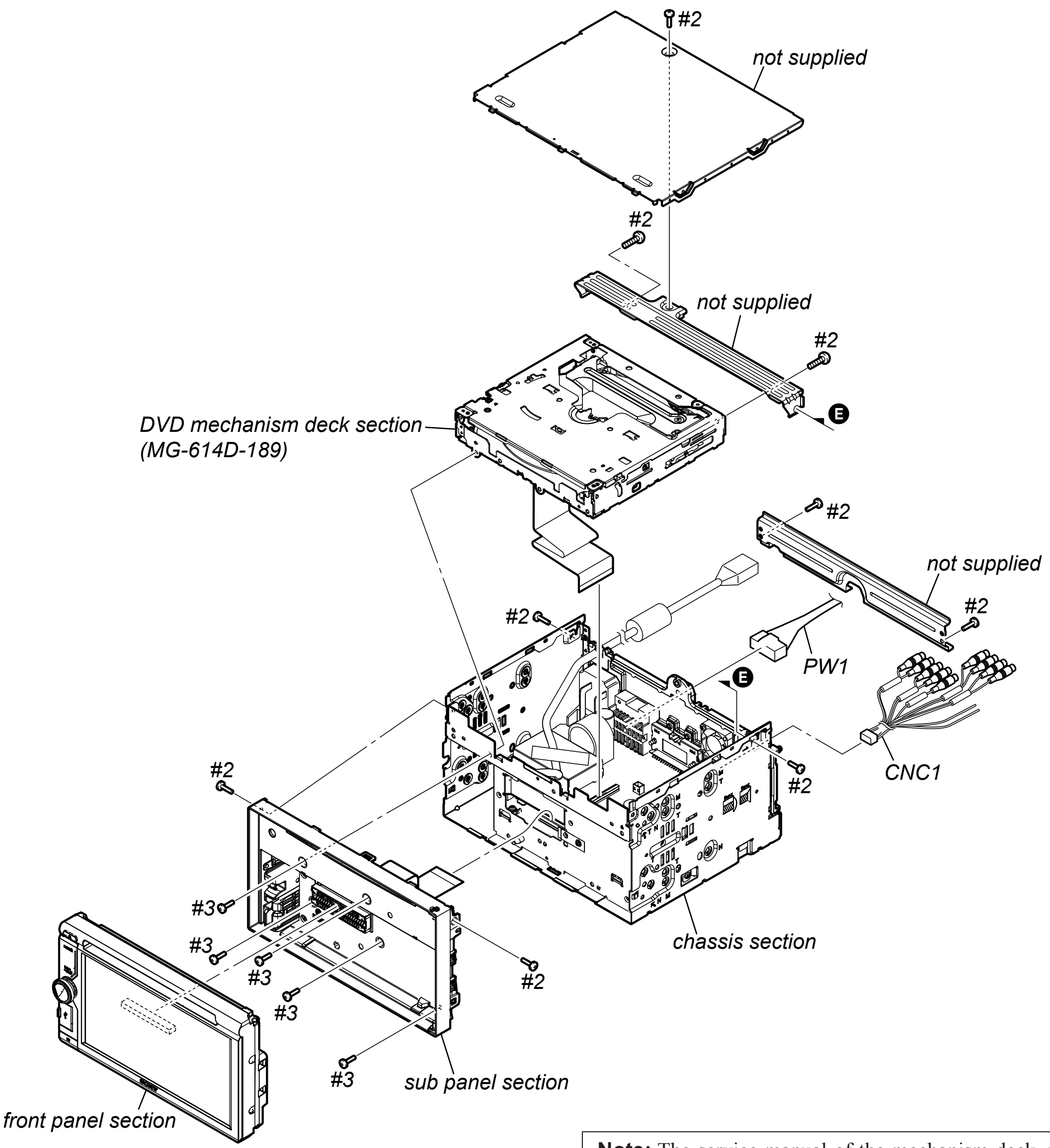
Pin No.	Pin Name	I/O	Description
1	SPEED_IN	I	Speed pulse signal input terminal Not used
2	SIRCS	I	SIRCS signal input from the panel section
3	MHL_OVER	I	MHL over current detection signal input terminal Not used
4	MODEL_SEL2	I	Model setting terminal
5	NCO	-	Not used
6	BYTE	I	External data bus width selection signal input terminal Fixed at “L” (16 bit) in this unit
7	FLASH_W	I	Flash writing terminal “L”: normally operation mode, “H”: writing mode
8	XCIN	I	Low-speed system clock input terminal (32.768 kHz)
9	XCOUT	O	Low-speed system clock output terminal (32.768 kHz)
10	RESET	I	System reset signal input from the reset signal generator and reset switch “L”: reset
11	XOUT	O	High-speed system clock output terminal (6 MHz)
12	VSS	-	Ground terminal
13	XIN	I	High-speed system clock input terminal (6 MHz)
14	VCC	-	Power supply terminal (+3.3V)
15	NMI	I	Non-maskable interrupt signal input terminal Fixed at “H” in this unit
16	MODEL_SEL4	I	Model setting terminal
17	BU_IN	I	Back up power supply detection signal input terminal “H”: back up power on
18	MHL_ON	O	MHL power supply on/off control signal output terminal Not used
19	REVERSE_IN	I	Reverse shift position detection signal input terminal “L”: reverse shift position
20	NAVI/XM_Rx	I	Serial data input from the EXT connector for external navigation (E (PAL) and Indian models) Serial data input from the SIRIUSXM IN connector (US and Canadian models) Not used (AEP, Russian, UK and E (NTSC) models)
21	VOL_ATT	O	Audio muting on/off control signal output to the electrical volume “L”: muting on
22	NAVI/XM_Tx	O	Serial data output to the EXT connector for external navigation (E (PAL) and Indian models) Serial data output to the SIRIUSXM IN connector (US and Canadian models) Not used (AEP, Russian, UK and E (NTSC) models)
23	NAVI_DET	I	External navigation detection signal input terminal “L”: navigation is detected (E (PAL) and Indian models only)
24	FSW_OUT	O	External sync signal output to the DC/DC converter, line amplifier and panel section
25	STB	O	Standby signal output to the power amplifier “L”: standby
26	BEEP	O	Beep sound output to the power amplifier
27	I2C_SCK	O	I2C clock signal output to the electrical volume, EEPROM and power amplifier
28	I2C_SIO	I/O	Two-way I2C data bus with the electrical volume, EEPROM and power amplifier
29	FLASH_Tx	O	Serial data output to the flash writing connector
30	FLASH_Rx	I	Serial data input from the flash writing connector
31	F_CLK	O	Serial data transfer clock signal output terminal Not used
32	BUSY	O	Busy signal output terminal Not used
33	HIT2_SDA	I/O	Two-way I2C data bus with the tuner unit
34	HIT2_SCL	O	I2C clock signal output to the tuner unit
35	DIAG	I	Diagnostic signal input from the power amplifier
36	XM_EN	O	Power supply on/off control signal output to the SIRIUSXM IN connector (US and Canadian models only)
37	ZxZ_ATT	O	ZxZ audio muting on/off control signal output terminal
38	NCO	-	Not used
39	HOLD	I	External data bus terminal at the flash writing mode Fixed at “L” in this unit
40	HIT2_RST	O	Reset signal output to the tuner unit “L”: reset
41	MHL/EXT_SEL	O	MHL/EXT selection signal output terminal Not used
42	PARKING_IN	I	Side brake (parking brake) position detection signal input terminal “L”: brake on
43	ACCIN	I	Accessory power supply detection signal input terminal “L”: accessory power on
44	WRI/WR	I	External data bus terminal at the flash writing mode Fixed at “H” in this unit
45	MECHA_Tx	O	Serial data output to the DVD mechanism deck block
46	MECHA_Rx	I	Serial data input from the DVD mechanism deck block
47	ATT_CNT	O	Audio muting on/off control signal output terminal “H”: normal operation, “L”: standby mode
48	MECHA_RTS	I	Request to send signal input from the DVD mechanism deck block
49	ATT	O	System muting on/off control signal output terminal “H”: muting on
50	SERVICE	I	Setting teminal for service “L”: for service, “H”: normal operation
51	EXTATT_XEN	O	External input audio muting on/off control signal output terminal “L”: disc play, “H”: other source play or source off
52	Z_MUTE	I	Zero data muting on/off control signal input from the DVD mechanism deck block “H”: muting on

Pin No.	Pin Name	I/O	Description
53	SELF_SW	I	Self loading position detection switch input terminal
54	IN_SW	I	Disc insert detection switch input terminal
55	D_SW	I	Chucking end detection switch input terminal
56	MECHA_RESET	O	Reset signal output to the DVD mechanism deck block "L": reset
57	MECHA_CTS	O	Clear to send signal output to the DVD mechanism deck block
58	CDP/SDP	O	VBUS charging mode selection signal output to the USB charging controller "L": not current 1.5 A, "H": current 1.5 A
59	MHL_DET	I	MHL detection signal input terminal Not used
60	VCC	-	Power supply terminal (+3.3V)
61	AP_RESET	O	Reset signal output to the panel section "L": reset
62	VSS	-	Ground terminal
63	AP_ON	O	Power supply on/off control signal output to the DC/DC converter "H": power on
64	ILL_IN	I	Illumination line detection signal input terminal for the automatic dimmer control "L": dimmer on
65	NCO	-	Not used
66	EJECT	O	Loading motor drive signal (eject direction) output terminal "H": motor on
67	LOAD	O	Loading motor drive signal (loading direction) output terminal "H": motor on
68	DR_ON	O	Power supply on/off control signal output terminal for loading motor driver "H": power on
69	VMUTE	O	Video muting on/off control signal output to the video select IC "L": muting on
70, 71	SEL_VOUT0, SEL_VOUT1	O	Video signal selection signal output to the video select IC
72	NOSE_SW	I	Front panel connecting detection signal and error signal input from the front panel section "L": normal mode
73, 74	SEL_VIN0, SEL_VIN1	O	Video signal selection signal output to the video select IC
75	AP_Tx	O	Serial data output to the panel section
76	AP_Rx	I	Serial data input from the panel section
77	EN_SYS	O	Power supply on/off control signal output terminal for DC/DC converter "H": power on
78	MHL_RST	O	MHL reset signal output terminal Not used
79	USB_ON1	O	Power supply on/off control signal output terminal for USB section "H": power on
80	USB_OVER	I	USB over current detection signal input from the DC/DC converter "L": over current
81	RE_0	I	Jog dial pulse input from the panel section (A phase input) (for volume)
82	RE_1	I	Jog dial pulse input from the panel section (B phase input) (for volume)
83	IDET	I	Monitor open/close motor drive current detection signal input terminal Not used
84	TEMP	I	Temperature detection signal input terminal Not used
85	KEY_IN0	I	Front panel key input terminal (A/D input)
86	RC_IN0	I	Rotary commander key input terminal (A/D input)
87	RCACK	I	Acknowledge signal (wake up signal) input terminal for the rotary commander key entry Acknowledge signal is input to accept any function key in the standby state On at input of "H"
88	KEYACK	I	Acknowledge signal (wake up signal) input terminal for the front panel key entry Acknowledge signal is input to accept any function key in the standby state On at input of "H"
89	RC_IN1	I	Rotary commander key input terminal
90	M_LOW	O	Monitor open/close speed (low) control signal output terminal Not used
91	M_MID	O	Monitor open/close speed (middle) control signal output terminal Not used
92	USB_ON2	O	Power supply on/off control signal output terminal for USB section "H": power on
93	CLOSE	I	Monitor close detection switch input terminal Not used
94	AVSS	-	Ground terminal
95	MOTOR_ON	O	Power supply on/off control signal output terminal Not used
96	VREF	I	Reference voltage (+3.3V) input terminal (for A/D converter)
97	AVCC	-	Power supply terminal (+3.3V)
98	MOTOR_+	O	Monitor open/close motor drive signal (forward direction) output terminal Not used
99	MOTOR_-	O	Monitor open/close motor drive signal (reverse direction) output terminal Not used
100	NCO	-	Not used

SECTION 6
EXPLODED VIEWS

Note:
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Color Indication of Appearance Parts Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ Parts Color ↑ Cabinet's Color
- Abbreviation
  CND : Canadian model
  IND : Indian model
  RU : Russian model

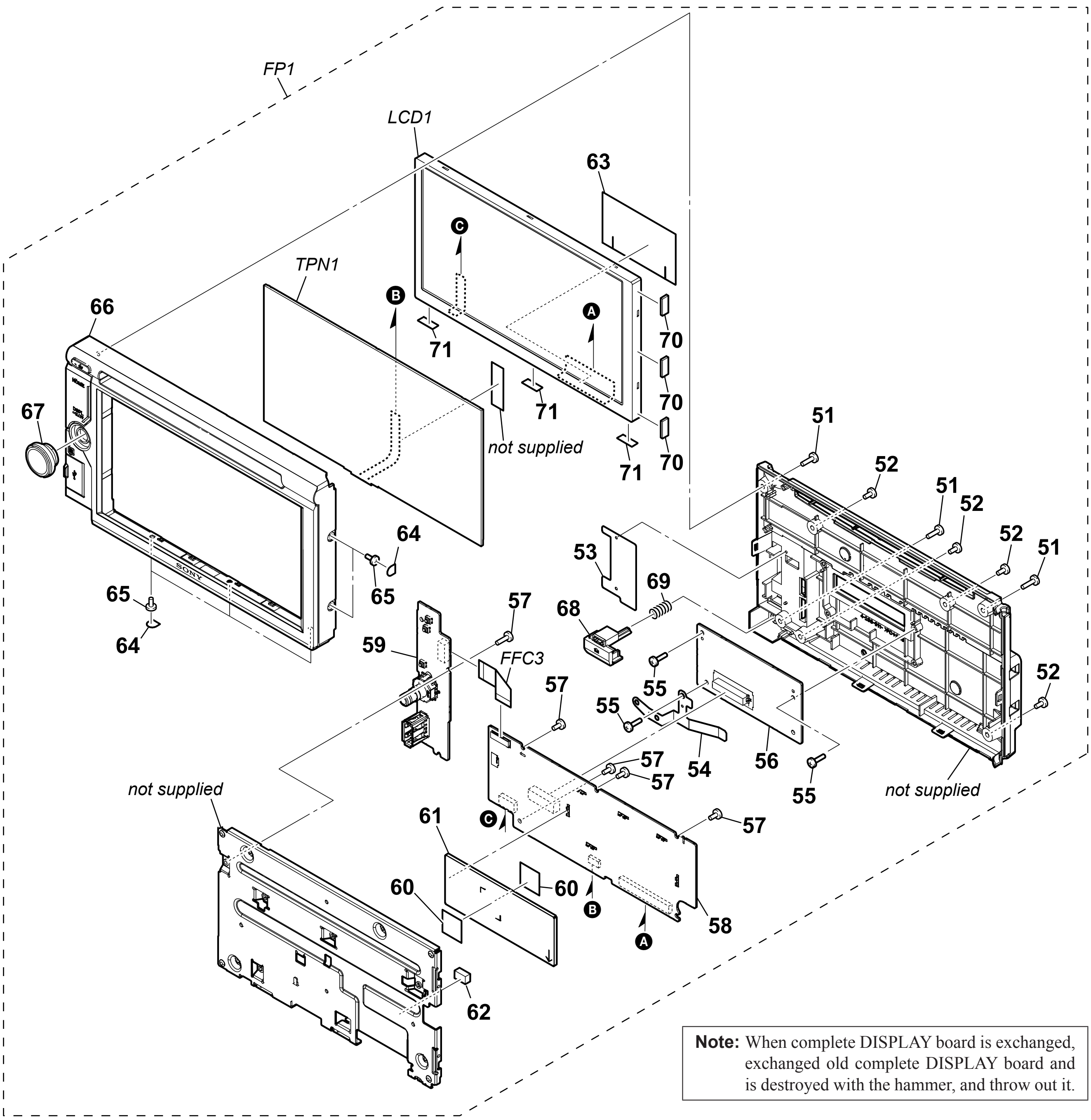
6-1. OVERALL SECTION



Note: The service manual of the mechanism deck, used in this model, has been issued in a separate volume. Please refer to the service manual of the MG-614 series for the mechanism deck information.

Ref. No.	Part No.	Description	Remark
CNC1	1-839-912-11	CORD, CONNECTION (20P) (REVERSE IN/SUB OUT/FRONT AUDIO OUT/REAR AUDIO OUT/ AUX1 AUDIO IN/AUX2 AUDIO IN)	
PW1	1-839-626-11	CONNECTION CORD (ISO) (POWER)	(AEP, RU, UK)
PW1	1-846-998-11	CONNECTION CABLE, AUTOMOBILE (POWER)	(US, CND, E (NTSC), E (PAL), IND)
#2	7-685-792-01	SCREW +PTT 2.6X6 (S)	
#3	7-685-793-09	SCREW +PTT 2.6X8 (S)	

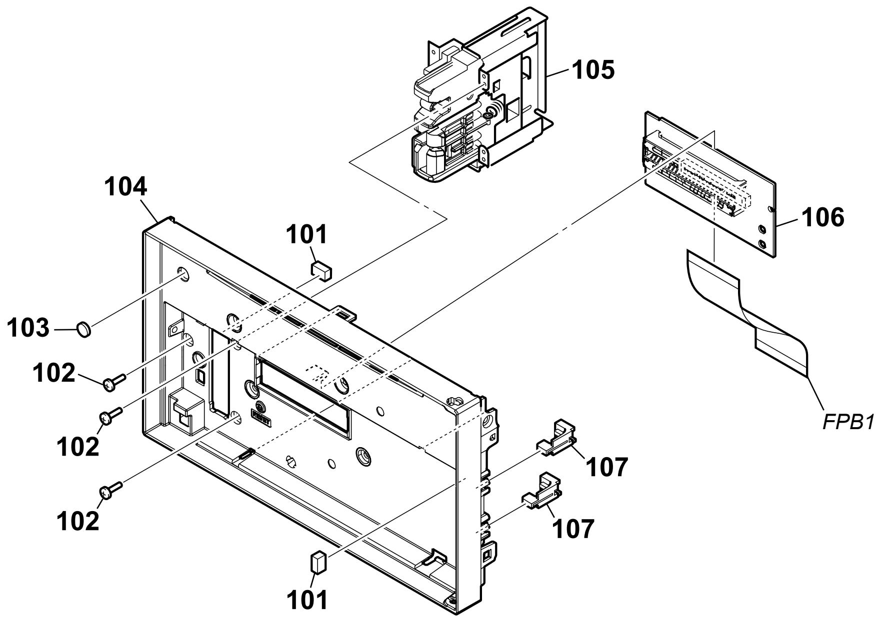
6-2. FRONT PANEL SECTION



Note: When complete DISPLAY board is exchanged, exchanged old complete DISPLAY board and is destroyed with the hammer, and throw out it.

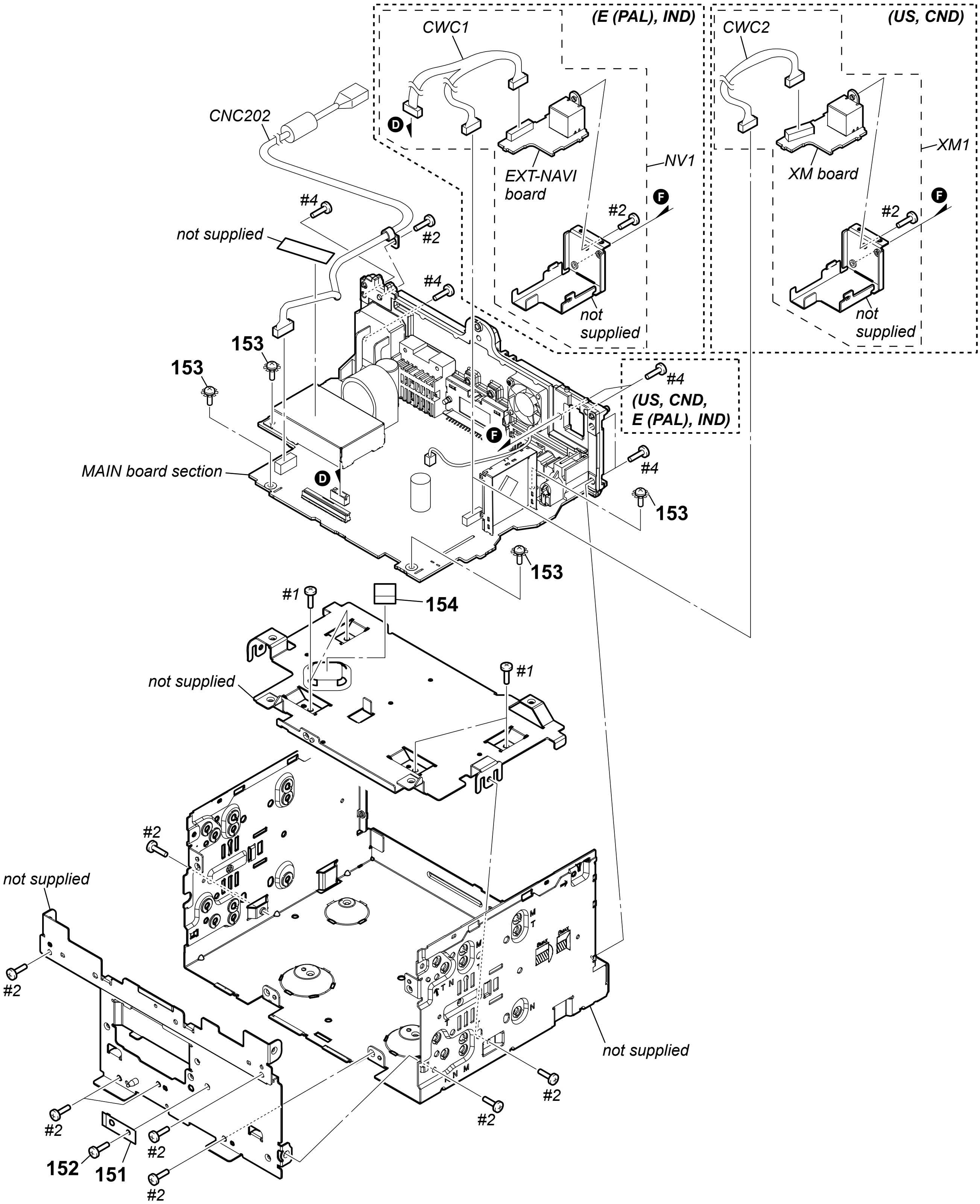
Ref. No.	Part No.	Description	Remark
51	3-250-543-02	SCREW (+B P-TITE M2)	
52	3-042-244-11	SCREW (T)	
53	4-416-514-01	SHEET (LOCK ASSY)	
54	4-298-925-01	PLATE (GND)	
55	3-275-728-11	SCREW (+B, TT, P-TYPE, 2XL)	
56	A-1871-775-A	D-SUB6 BOARD, COMPLETE	
57	3-042-244-51	SCREW (T)	
58	A-1971-488-A	DISPLAY BOARD, COMPLETE (US, CND, AEP, UK, E (NTSC)) (See Note)	
58	A-1971-489-A	DISPLAY BOARD, COMPLETE (E (PAL), IND) (See Note)	
59	A-1871-776-A	KEY6 BOARD, COMPLETE	
60	4-434-436-11	SHEET (HEAT), TRANSFER, T0.5	
61	4-298-927-01	SHEILD (AP)	
62	4-446-848-01	GASKET (BT), H2.5	
63	4-426-954-01	SHEET (LCD)	
64	4-428-135-01	SHEET (SCREW)	
65	4-415-479-01	SCREW +Z S1.7X4	
66	X-2588-188-1	PANEL (SV) ASSY, FRONT (US, CND)	
66	X-2588-189-1	PANEL (SV) ASSY, FRONT (AEP, UK)	
66	X-2588-190-1	PANEL (SV) ASSY, FRONT (RU, E (NTSC), E (PAL), IND)	
67	X-2584-672-1	KNOB (VOL) (SV) ASSY	
68	4-298-914-01	BUTTON (RELEASE) (⏏)	
69	4-298-930-02	SPRING (RELEASE)	
70	4-430-672-01	CUSHION (LCD), SIDE	
71	4-429-668-01	CUSHION (LCD), LOWER	
FFC3	1-848-010-11	CABLE, FLEXIBLE FLAT (20CORE)	
FP1	A-1971-301-A	PANEL COMPLETE ASSY, FRONT (US, CND)	
FP1	A-1971-302-A	PANEL COMPLETE ASSY, FRONT (AEP, UK)	
FP1	A-1971-303-A	PANEL COMPLETE ASSY, FRONT (E (PAL), IND)	
FP1	A-1971-304-A	PANEL COMPLETE ASSY, FRONT (E (NTSC), RU)	
LCD1	1-811-668-11	DISPLAY PANEL, LIQUID CRYSTAL	
TPN1	1-458-489-11	TOUCH PANEL	

6-3. SUB PANEL SECTION



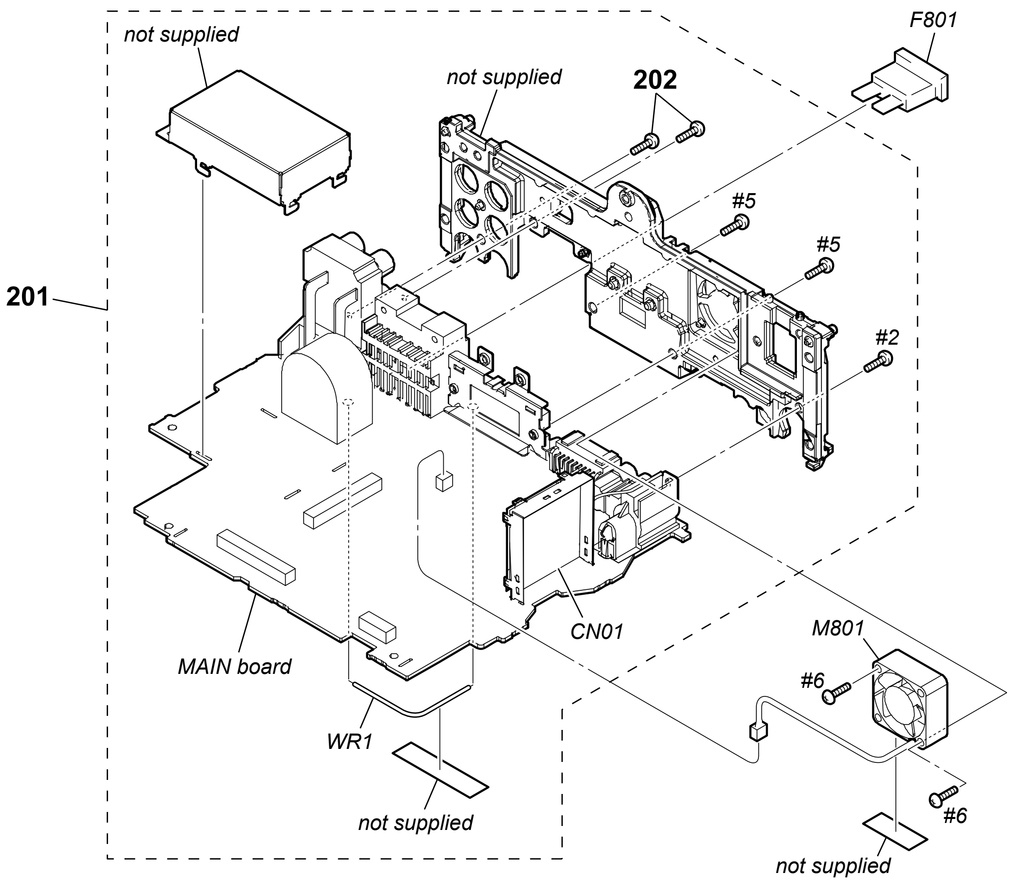
Ref. No.	Part No.	Description	Remark
101	4-439-172-01	CUSHION (LOCK ASSY)	
102	3-042-244-11	SCREW (T)	
103	3-243-844-02	CUSHION (SUB PANEL)	
104	X-2583-155-2	PANEL (SUB6) ASSY, SUB	
105	X-2582-850-7	LOCK ASSY (2DIN)	
106	A-1871-747-A	M-SUB6 BOARD, COMPLETE	
107	4-298-967-02	PLATE (ADJUST)	
FPB1	1-886-726-11	PRINTED WIRING BOARD, FLEXIBLE	

6-4. CHASSIS SECTION



Ref. No.	Part No.	Description	Remark
151	4-417-843-01	SHEET (GND), BRACKET	
152	2-894-799-01	SCREW +PTW S2X5	
153	4-410-504-01	SCREW (+PTT 2.6X6), GROUND POINT	
154	4-486-790-01	THERMAL CONDUCTIVE PAD T5	
CNC202	1-846-886-11	CABLE FOR AUTOMOBILE (USB) (⭠)	
CWC1	1-846-902-11	CABLE WITH CONNECTOR (NAVI CABLE)	(E (PAL), IND)
CWC2	1-846-359-11	CABLE WITH CONNECTOR (XM CABLE)	(US, CND)
NV1	A-1971-485-A	CONNECTOR ASSY (Including EXT-NAVI board)	(E (PAL), IND)
XM1	A-1971-484-A	CONNECTOR ASSY (Including XM board)	(US, CND)
#1	7-685-790-01	SCREW +PTT 2.6X4 (S)	
#2	7-685-792-01	SCREW +PTT 2.6X6 (S)	
#4	7-685-793-01	SCREW +PTT 2.6X8 (S)	

6-5. MAIN BOARD SECTION



Note: When the complete MAIN board is replaced, the destination setting is necessary. Refer to "NOTE THE MAIN BOARD OR SYSTEM CONTROLLER (IC502) REPLACING" on page 5.

Ref. No.	Part No.	Description	Remark
201	A-1971-476-A	MAIN BOARD, COMPLETE (US, CND) (See Note)	
201	A-1971-477-A	MAIN BOARD, COMPLETE (AEP, UK) (See Note)	
201	A-1971-478-A	MAIN BOARD, COMPLETE (E (PAL), IND) (See Note)	
201	A-1971-479-A	MAIN BOARD, COMPLETE (E (NTSC), RU) (See Note)	
202	4-434-836-01	SCREW (+P P-TITE M2.6)	
CN01	A-1878-198-A	TUX-DSP02 (TUNER UNIT) (Included in MAIN board)	

Ref. No.	Part No.	Description	Remark
F801	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) (10 A/32 V)	
M801	1-787-976-11	FAN, DC (25X25)	
WR1	1-848-009-11	WIRE, PVC UL1569 AWG18 YEL L53	
#2	7-685-792-01	SCREW +PTT 2.6X6 (S)	
#5	7-685-795-01	SCREW +PTT 2.6X12 (S)	
#6	7-685-796-01	SCREW +PTT 2.6X14 (S)	

SECTION 7
ELECTRICAL PARTS LIST

DISPLAY | D-SUB6 | EXT-NAVI

Note:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- CAPACITORS
  uF: μF
- COILS
  uH: μH
- SEMICONDUCTORS
  In each case, u: μ, for example:
  uA. . : μA. . , uPA. . , μPA. . ,
  uPB. . : μPB. . , uPC. . , μPC. . ,
  uPD. . : μPD. .
- Abbreviation
  CND : Canadian model
  IND : Indian model
  RU : Russian model

When indicating parts by reference number, please include the board name.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description				Remark
	A-1971-488-A	DISPLAY BOARD, COMPLETE (US, CND, AEP, UK, E (NTSC))				
	A-1971-489-A	DISPLAY BOARD, COMPLETE (E (PAL), IND)				
		************************				
		(See Note)				

When DISPLAY board is defective, exchange the complete mounted board.
****

Ref. No.	Part No.	Description				Remark
	A-1871-775-A	D-SUB6 BOARD, COMPLETE				
		**********************				
		< CAPACITOR >				
C2001	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	
C2002	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	
		< CONNECTOR >				
CN2000	1-843-289-11	CONNECTOR, BOARD TO BOARD 60P				
CN2001	1-843-287-11	PLUG, CONNECTOR 46P				
		< SURGE ABSORBER >				
D2001	1-805-043-11	ABSORBER, CHIP SURGE				
D2002	1-805-043-11	ABSORBER, CHIP SURGE				
D2003	1-805-043-11	ABSORBER, CHIP SURGE				
D2004	1-805-043-11	ABSORBER, CHIP SURGE				
D2005	1-805-043-11	ABSORBER, CHIP SURGE				
D2006	1-805-043-11	ABSORBER, CHIP SURGE				
D2007	1-805-043-11	ABSORBER, CHIP SURGE				
D2008	1-805-043-11	ABSORBER, CHIP SURGE				
D2009	1-805-043-11	ABSORBER, CHIP SURGE				
D2010	1-805-043-11	ABSORBER, CHIP SURGE				
D2011	1-805-043-11	ABSORBER, CHIP SURGE				
D2012	1-805-043-11	ABSORBER, CHIP SURGE				
D2013	1-805-043-11	ABSORBER, CHIP SURGE				
D2014	1-805-043-11	ABSORBER, CHIP SURGE				
D2020	1-805-043-11	ABSORBER, CHIP SURGE				
D2021	1-805-043-11	ABSORBER, CHIP SURGE				
D2022	1-805-043-11	ABSORBER, CHIP SURGE				
D2023	1-805-043-11	ABSORBER, CHIP SURGE				
D2034	1-805-043-11	ABSORBER, CHIP SURGE				
D2035	1-805-043-11	ABSORBER, CHIP SURGE				
		< RESISTOR >				
R2000	1-216-295-91	SHORT CHIP	0			
R2001	1-216-864-11	SHORT CHIP	0			
R2002	1-216-033-00	METAL CHIP	220	5%	1/10W	
R2003	1-216-033-00	METAL CHIP	220	5%	1/10W	
R2004	1-216-025-11	METAL CHIP	100	5%	1/10W	
R2005	1-216-295-91	SHORT CHIP	0			
		< VARISTOR >				
VDR992	1-811-669-21	CHIP VARISTOR				
VDR993	1-811-669-21	CHIP VARISTOR				
VDR994	1-804-988-21	VARISTOR, CHIP (1608)				
VDR995	1-804-988-21	VARISTOR, CHIP (1608)				
VDR996	1-804-988-21	VARISTOR, CHIP (1608)				
VDR997	1-804-988-21	VARISTOR, CHIP (1608)				
VDR998	1-804-988-21	VARISTOR, CHIP (1608)				

Note: When complete DISPLAY board is exchanged, exchanged old complete DISPLAY board and is destroyed with the hammer, and throw out it.

****

Ref. No.	Part No.	Description				Remark
	A-1971-485-A	EXT-NAVI BOARD, COMPLETE (E (PAL), IND) (Included in CONNECTOR ASSY (NV1))				
		************************				
		< CAPACITOR >				
C602	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	
C603	1-118-347-11	CERAMIC CHIP	0.1uF	10%	25V	
C604	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	
C605	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	
C606	1-124-589-11	ELECT	47uF	20%	16V	
C607	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	
C608	1-118-403-11	CERAMIC CHIP	0.001uF	10%	50V	
C609	1-118-418-11	CERAMIC CHIP	22uF	20%	6.3V	
C610	1-118-417-11	CERAMIC CHIP	0.1uF	10%	16V	
		< CONNECTOR >				
CN601	1-842-501-11	CONNECTOR (BUS) (EXT)				
* CN603	1-566-767-11	PIN, CONNECTOR (PC BOARD) 12P				
		< IC >				
IC601	6-718-920-01	IC BA3123F-E2				
		< TRANSISTOR >				
Q601	6-552-936-01	TRANSISTOR	LTC014EUBFS8TL			
Q602	6-552-936-01	TRANSISTOR	LTC014EUBFS8TL			
Q603	6-552-936-01	TRANSISTOR	LTC014EUBFS8TL			
Q604	6-552-936-01	TRANSISTOR	LTC014EUBFS8TL			
		< RESISTOR >				
R600	1-216-864-11	SHORT CHIP	0			
R602	1-216-864-11	SHORT CHIP	0			
R603	1-216-864-11	SHORT CHIP	0			

EXT-NAVI **KEY6** **MAIN**

Ref. No.	Part No.	Description				Remark
R607	1-216-864-11	SHORT CHIP	0			
R608	1-216-864-11	SHORT CHIP	0			
R609	1-216-864-11	SHORT CHIP	0			
R610	1-216-864-11	SHORT CHIP	0			
R611	1-216-864-11	SHORT CHIP	0			
R612	1-218-863-11	METAL CHIP	4.7K	0.5%	1/10W	
R619	1-218-937-11	METAL CHIP	47	5%	1/16W	
R620	1-218-937-11	METAL CHIP	47	5%	1/16W	
R621	1-218-935-11	METAL CHIP	33	5%	1/16W	
R622	1-218-961-11	METAL CHIP	4.7K	5%	1/16W	
R623	1-218-965-11	METAL CHIP	10K	5%	1/16W	
R625	1-218-953-11	METAL CHIP	1K	5%	1/16W	
R627	1-218-965-11	METAL CHIP	10K	5%	1/16W	
R628	1-218-965-11	METAL CHIP	10K	5%	1/16W	
R629	1-216-864-11	SHORT CHIP	0			
R640	1-216-864-11	SHORT CHIP	0			
R641	1-216-864-11	SHORT CHIP	0			
R642	1-216-864-11	SHORT CHIP	0			
R643	1-216-864-11	SHORT CHIP	0			
R644	1-216-864-11	SHORT CHIP	0			
R645	1-216-864-11	SHORT CHIP	0			
R646	1-216-864-11	SHORT CHIP	0			
R647	1-216-864-11	SHORT CHIP	0			
R649	1-216-864-11	SHORT CHIP	0			

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A-1871-776-A KEY6 BOARD, COMPLETE

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Ref. No.	Part No.	Description				Remark
		< CAPACITOR >				
C2500	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
C2503	1-114-329-11	CERAMIC CHIP	0.47uF	10%	50V	
C2504	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	
		< CONNECTOR >				
CN2501	1-819-407-61	CONNECTOR, FFC/FPC (ZIF) 20P				
CN2502	1-822-798-31	USB CONNECTOR (ψ)				
		< LED >				
D2502	6-503-871-01	LED SMLVN6RGB1U1 (ILLUMINATION)				
D2503	6-503-871-01	LED SMLVN6RGB1U1 (ILLUMINATION)				
		< IC >				
IC2500	6-600-629-01	IC RS-470 (R)				
		< COIL >				
L2500	1-457-223-11	COMMON MODE CHOKE COIL				
		< TRANSISTOR >				
Q2503	8-729-013-24	TRANSISTOR	HN1C01FU			
Q2504	8-729-013-24	TRANSISTOR	HN1C01FU			
Q2505	8-729-013-24	TRANSISTOR	HN1C01FU			
		< RESISTOR >				
R2500	1-218-952-11	METAL CHIP	820	5%	1/16W	
R2501	1-218-953-11	METAL CHIP	1K	5%	1/16W	
R2502	1-218-953-11	METAL CHIP	1K	5%	1/16W	
R2503	1-216-822-11	METAL CHIP	1.2K	5%	1/10W	
R2504	1-216-822-11	METAL CHIP	1.2K	5%	1/10W	
R2505	1-218-990-81	SHORT CHIP	0			
R2506	1-216-815-11	METAL CHIP	330	5%	1/10W	
R2507	1-218-941-81	METAL CHIP	100	5%	1/16W	
R2508	1-216-817-11	METAL CHIP	470	5%	1/10W	
R2512	1-216-809-11	METAL CHIP	100	5%	1/10W	
R2515	1-216-803-11	METAL CHIP	33	5%	1/10W	
R2518	1-216-803-11	METAL CHIP	33	5%	1/10W	
R2523	1-216-808-11	METAL CHIP	82	5%	1/10W	
R2524	1-216-809-11	METAL CHIP	100	5%	1/10W	
R2525	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R2526	1-216-809-11	METAL CHIP	100	5%	1/10W	
R2527	1-216-807-11	METAL CHIP	68	5%	1/10W	
R2533	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R2536	1-216-808-11	METAL CHIP	82	5%	1/10W	
R2537	1-216-809-11	METAL CHIP	100	5%	1/10W	
R2538	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R2544	1-218-990-81	SHORT CHIP	0			
R2545	1-218-990-81	SHORT CHIP	0			
R2548	1-218-990-81	SHORT CHIP	0			
R2549	1-216-864-11	SHORT CHIP	0			
		< SWITCH/ ROTARY ENCODER >				
S2500	1-798-284-11	TACTILE SWITCH (Z)				
S2501	1-798-284-11	TACTILE SWITCH (HOME, ━ VOICE)				
S2502	1-798-284-11	TACTILE SWITCH (DSPL, ━ M.OFF)				
S2503	1-487-023-22	ROTARY ENCODER (PUSH SOURCE/━ OFF, VOLUME)				
		< VARISTOR >				
VDR250	1-805-774-21	VARISTOR, CHIP				
VDR251	1-805-774-21	VARISTOR, CHIP				

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A-1971-476-A MAIN BOARD, COMPLETE (US, CND)
A-1971-477-A MAIN BOARD, COMPLETE (AEP, UK)
A-1971-478-A MAIN BOARD, COMPLETE (E (PAL), IND)
A-1971-479-A MAIN BOARD, COMPLETE (E (NTSC), RU)

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(See Note)

Ref. No.	Part No.	Description				Remark
	4-434-836-01	SCREW (+P P-TITE M2.6)				
	7-685-792-01	SCREW +PTT 2.6X6 (S)				
	7-685-795-01	SCREW +PTT 2.6X12 (S)				
		< CAPACITOR >				
C11	1-100-767-21	ELECT CHIP	220uF	20%	16V	
C16	1-118-347-11	CERAMIC CHIP	0.1uF	10%	25V	
C17	1-118-459-11	CERAMIC CHIP	0.01uF	10%	25V	
C101	1-125-972-61	ELECT	100uF	20%	16V	
C102	1-114-181-11	ELECT CHIP	220uF	20%	6.3V	
C103	1-128-394-11	ELECT CHIP	220uF	20%	10V	
C104	1-128-398-11	ELECT CHIP	220uF	20%	16V	
C105	1-118-459-11	CERAMIC CHIP	0.01uF	10%	25V	
C109	1-116-734-11	CERAMIC CHIP	1uF	20%	16V	
C111	1-118-347-11	CERAMIC CHIP	0.1uF	10%	25V	
C112	1-100-582-21	ELECT CHIP	470uF	20%	4V	
C113	1-118-347-11	CERAMIC CHIP	0.1uF	10%	25V	
C114	1-118-417-11	CERAMIC CHIP	0.1uF	10%	16V	
C116	1-116-711-11	CERAMIC CHIP	22uF	20%	16V	
* C117	1-116-719-11	CERAMIC CHIP	10uF	10%	6.3V	
C118	1-118-345-11	CERAMIC CHIP	0.01uF	10%	25V	
C119	1-118-347-11	CERAMIC CHIP	0.1uF	10%	25V	
C120	1-118-462-11	CERAMIC CHIP	1uF	10%	10V	

Note: When the complete MAIN board is replaced, the destination setting is necessary. Refer to "NOTE THE MAIN BOARD OR SYSTEM CONTROLLER (IC502) REPLACING" on page 5.

Ref. No.	Part No.	Description			Remark
C121	1-116-734-11	CERAMIC CHIP	1uF	20%	16V
C122	1-100-159-91	CERAMIC CHIP	22uF	10%	6.3V
C201	1-118-347-11	CERAMIC CHIP	0.1uF	10%	25V
C202	1-118-347-11	CERAMIC CHIP	0.1uF	10%	25V
C203	1-118-347-11	CERAMIC CHIP	0.1uF	10%	25V
* C204	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V
C205	1-118-347-11	CERAMIC CHIP	0.1uF	10%	25V
C206	1-118-480-11	CERAMIC CHIP	4.7uF	10%	6.3V
C207	1-118-480-11	CERAMIC CHIP	4.7uF	10%	6.3V
C208	1-118-417-11	CERAMIC CHIP	0.1uF	10%	16V
* C209	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V
C210	1-118-480-11	CERAMIC CHIP	4.7uF	10%	6.3V
C211	1-118-347-11	CERAMIC CHIP	0.1uF	10%	25V
C212	1-118-347-11	CERAMIC CHIP	0.1uF	10%	25V
C214	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C215	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C216	1-100-159-91	CERAMIC CHIP	22uF	10%	6.3V
C217	1-118-402-11	CERAMIC CHIP	0.0012uF	10%	50V
C301	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C302	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C303	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C304	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C305	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C306	1-118-345-11	CERAMIC CHIP	0.01uF	10%	25V (E (PAL), IND)
C307	1-118-345-11	CERAMIC CHIP	0.01uF	10%	25V (E (PAL), IND)
C308	1-118-480-11	CERAMIC CHIP	4.7uF	10%	6.3V
C309	1-118-480-11	CERAMIC CHIP	4.7uF	10%	6.3V
C310	1-118-480-11	CERAMIC CHIP	4.7uF	10%	6.3V
C311	1-118-480-11	CERAMIC CHIP	4.7uF	10%	6.3V
C312	1-118-480-11	CERAMIC CHIP	4.7uF	10%	6.3V
C313	1-118-465-11	CERAMIC CHIP	4.7uF	10%	16V
C314	1-117-681-11	ELECT CHIP	100uF	20%	16V
C315	1-164-874-11	CERAMIC CHIP	100PF	5%	50V
C316	1-118-417-11	CERAMIC CHIP	0.1uF	10%	16V
C317	1-100-381-11	ELECT CHIP	10uF	20%	16V
C318	1-118-480-11	CERAMIC CHIP	4.7uF	10%	6.3V
C319	1-118-480-11	CERAMIC CHIP	4.7uF	10%	6.3V
C320	1-118-480-11	CERAMIC CHIP	4.7uF	10%	6.3V
C321	1-118-480-11	CERAMIC CHIP	4.7uF	10%	6.3V
C322	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C323	1-118-462-11	CERAMIC CHIP	1uF	10%	10V
C324	1-118-480-11	CERAMIC CHIP	4.7uF	10%	6.3V
C325	1-118-480-11	CERAMIC CHIP	4.7uF	10%	6.3V
C326	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C327	1-118-040-11	CERAMIC CHIP	2.2uF	10%	16V
C328	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C330	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C331	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C332	1-118-047-11	CERAMIC CHIP	10uF	10%	16V
C333	1-118-459-11	CERAMIC CHIP	0.01uF	10%	25V
C334	1-118-462-11	CERAMIC CHIP	1uF	10%	10V
C335	1-100-381-11	ELECT CHIP	10uF	20%	16V
C336	1-100-381-11	ELECT CHIP	10uF	20%	16V
C337	1-100-381-11	ELECT CHIP	10uF	20%	16V
C338	1-100-381-11	ELECT CHIP	10uF	20%	16V
C339	1-100-381-11	ELECT CHIP	10uF	20%	16V
C341	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C342	1-162-921-11	CERAMIC CHIP	33PF	5%	50V

Ref. No.	Part No.	Description			Remark
C343	1-165-908-11	CERAMIC CHIP	1uF	10%	10V (E (PAL), IND)
C345	1-162-921-11	CERAMIC CHIP	33PF	5%	50V
C346	1-162-921-11	CERAMIC CHIP	33PF	5%	50V
C348	1-118-345-11	CERAMIC CHIP	0.01uF	10%	25V
C349	1-118-290-11	CERAMIC CHIP	0.001uF	10%	50V
C351	1-115-412-11	CERAMIC CHIP	680PF	5%	25V
C352	1-118-345-11	CERAMIC CHIP	0.01uF	10%	25V
C353	1-118-480-11	CERAMIC CHIP	4.7uF	10%	6.3V
* C354	1-116-720-11	CERAMIC CHIP	10uF	20%	6.3V
C355	1-164-874-11	CERAMIC CHIP	100PF	5%	50V
C356	1-118-417-11	CERAMIC CHIP	0.1uF	10%	16V
C357	1-164-874-11	CERAMIC CHIP	100PF	5%	50V
C358	1-116-711-11	CERAMIC CHIP	22uF	20%	16V
* C359	1-116-720-11	CERAMIC CHIP	10uF	20%	6.3V
C360	1-115-412-11	CERAMIC CHIP	680PF	5%	25V
C361	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C362	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C363	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C364	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C365	1-118-040-11	CERAMIC CHIP	2.2uF	10%	16V
C366	1-118-480-11	CERAMIC CHIP	4.7uF	10%	6.3V
C367	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C368	1-118-480-11	CERAMIC CHIP	4.7uF	10%	6.3V
C369	1-126-947-11	ELECT	47uF	20%	35V
C370	1-162-921-11	CERAMIC CHIP	33PF	5%	50V
C371	1-118-462-11	CERAMIC CHIP	1uF	10%	10V
C372	1-118-462-11	CERAMIC CHIP	1uF	10%	10V
C373	1-118-462-11	CERAMIC CHIP	1uF	10%	10V
C374	1-162-921-11	CERAMIC CHIP	33PF	5%	50V
C375	1-162-921-11	CERAMIC CHIP	33PF	5%	50V
C376	1-118-480-11	CERAMIC CHIP	4.7uF	10%	6.3V
C377	1-118-040-11	CERAMIC CHIP	2.2uF	10%	16V (US, CND)
C378	1-118-462-11	CERAMIC CHIP	1uF	10%	10V (US, CND)
C379	1-118-462-11	CERAMIC CHIP	1uF	10%	10V (US, CND)
C380	1-118-480-11	CERAMIC CHIP	4.7uF	10%	6.3V
C381	1-115-412-11	CERAMIC CHIP	680PF	5%	25V
C382	1-115-412-11	CERAMIC CHIP	680PF	5%	25V
C383	1-115-412-11	CERAMIC CHIP	680PF	5%	25V
C384	1-115-412-11	CERAMIC CHIP	680PF	5%	25V
C385	1-115-412-11	CERAMIC CHIP	680PF	5%	25V
C386	1-118-480-11	CERAMIC CHIP	4.7uF	10%	6.3V
C387	1-162-921-11	CERAMIC CHIP	33PF	5%	50V
C388	1-162-921-11	CERAMIC CHIP	33PF	5%	50V
C389	1-162-921-11	CERAMIC CHIP	33PF	5%	50V
C390	1-162-921-11	CERAMIC CHIP	33PF	5%	50V
C391	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C392	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C393	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C394	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C395	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C398	1-162-921-11	CERAMIC CHIP	33PF	5%	50V
C399	1-162-921-11	CERAMIC CHIP	33PF	5%	50V
C402	1-116-721-11	CERAMIC CHIP	4.7uF	10%	25V
C403	1-165-733-91	ELECT	100uF	20%	25V
C404	1-100-055-21	CERAMIC CHIP	22uF	20%	16V
C405	1-100-055-21	CERAMIC CHIP	22uF	20%	16V
C406	1-100-055-21	CERAMIC CHIP	22uF	20%	16V

MAIN

	Ref. No.	Part No.	Description				Remark
	C407	1-118-347-11	CERAMIC CHIP	0.1uF	10%	25V	
	C408	1-118-345-11	CERAMIC CHIP	0.01uF	10%	25V	
	C409	1-118-459-11	CERAMIC CHIP	0.01uF	10%	25V	
	C410	1-115-412-11	CERAMIC CHIP	680PF	5%	25V	
	C411	1-117-681-11	ELECT CHIP	100uF	20%	16V	
	C412	1-116-715-11	CERAMIC CHIP	10uF	10%	25V	
	C413	1-116-728-11	CERAMIC CHIP	2.2uF	10%	10V	
	C414	1-118-459-11	CERAMIC CHIP	0.01uF	10%	25V	
	C415	1-118-417-11	CERAMIC CHIP	0.1uF	10%	16V	
	C418	1-162-966-91	CERAMIC CHIP	0.0022uF	10%	50V	
	C419	1-162-966-91	CERAMIC CHIP	0.0022uF	10%	50V	
	C420	1-162-966-91	CERAMIC CHIP	0.0022uF	10%	50V	
	C431	1-100-055-21	CERAMIC CHIP	22uF	20%	16V	
	C432	1-100-055-21	CERAMIC CHIP	22uF	20%	16V	
	C433	1-100-055-21	CERAMIC CHIP	22uF	20%	16V	
	C434	1-118-347-11	CERAMIC CHIP	0.1uF	10%	25V	
	C435	1-118-345-11	CERAMIC CHIP	0.01uF	10%	25V	
	C436	1-118-459-11	CERAMIC CHIP	0.01uF	10%	25V	
	C437	1-115-412-11	CERAMIC CHIP	680PF	5%	25V	
	C438	1-117-681-11	ELECT CHIP	100uF	20%	16V	
	C440	1-116-728-11	CERAMIC CHIP	2.2uF	10%	10V	
	C441	1-118-459-11	CERAMIC CHIP	0.01uF	10%	25V	
	C442	1-118-417-11	CERAMIC CHIP	0.1uF	10%	16V	
	C444	1-116-715-11	CERAMIC CHIP	10uF	10%	25V	
	C460	1-118-347-11	CERAMIC CHIP	0.1uF	10%	25V	
	C461	1-116-715-11	CERAMIC CHIP	10uF	10%	25V	
	C462	1-116-715-11	CERAMIC CHIP	10uF	10%	25V	
	C463	1-118-459-11	CERAMIC CHIP	0.01uF	10%	25V	
	C464	1-118-395-11	CERAMIC CHIP	0.0047uF	10%	50V	
*	C465	1-118-035-11	CERAMIC CHIP	0.1uF	10%	25V	
	C466	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V	
*	C467	1-116-710-11	CERAMIC CHIP	22uF	10%	16V	
*	C468	1-116-710-11	CERAMIC CHIP	22uF	10%	16V	
	C469	1-114-402-21	ELECT CHIP	10uF	20%	35V	
	C470	1-118-373-11	CERAMIC CHIP	0.01uF	10%	50V	
	C501	1-118-347-11	CERAMIC CHIP	0.1uF	10%	25V	
	C502	1-118-345-11	CERAMIC CHIP	0.01uF	10%	25V	
	C503	1-118-290-11	CERAMIC CHIP	0.001uF	10%	50V	
	C504	1-118-347-11	CERAMIC CHIP	0.1uF	10%	25V	
	C505	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	
	C506	1-118-347-11	CERAMIC CHIP	0.1uF	10%	25V	
	C507	1-118-290-11	CERAMIC CHIP	0.001uF	10%	50V	
	C510	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	
	C512	1-118-347-11	CERAMIC CHIP	0.1uF	10%	25V	
	C515	1-118-347-11	CERAMIC CHIP	0.1uF	10%	25V	
	C517	1-118-462-11	CERAMIC CHIP	1uF	10%	10V	
	C518	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	
	C519	1-118-417-11	CERAMIC CHIP	0.1uF	10%	16V	
	C521	1-162-918-11	CERAMIC CHIP	18PF	5%	50V	
	C522	1-162-917-11	CERAMIC CHIP	15PF	5%	50V	
	C526	1-126-768-11	ELECT	2200uF	20%	16V	
	C527	1-128-057-11	ELECT	330uF	20%	6.3V	
	C528	1-118-345-11	CERAMIC CHIP	0.01uF	10%	25V	
	C529	1-118-417-11	CERAMIC CHIP	0.1uF	10%	16V	
	C530	1-118-347-11	CERAMIC CHIP	0.1uF	10%	25V	
	C708	1-118-417-11	CERAMIC CHIP	0.1uF	10%	16V	
	C709	1-116-718-11	CERAMIC CHIP	10uF	10%	10V	
	C711	1-118-462-11	CERAMIC CHIP	1uF	10%	10V	
	C712	1-116-718-11	CERAMIC CHIP	10uF	10%	10V	
	C720	1-118-459-11	CERAMIC CHIP	0.01uF	10%	25V	
	C723	1-116-718-11	CERAMIC CHIP	10uF	10%	10V	
	C725	1-116-718-11	CERAMIC CHIP	10uF	10%	10V	
	C728	1-104-665-11	ELECT	100uF	20%	25V	
	C729	1-118-417-11	CERAMIC CHIP	0.1uF	10%	16V	
	C730	1-126-947-11	ELECT	47uF	20%	35V	
	C731	1-118-417-11	CERAMIC CHIP	0.1uF	10%	16V	
	C732	1-118-417-11	CERAMIC CHIP	0.1uF	10%	16V	
	C733	1-118-417-11	CERAMIC CHIP	0.1uF	10%	16V	
	C802	1-118-290-11	CERAMIC CHIP	0.001uF	10%	50V	
*	C803	1-118-035-11	CERAMIC CHIP	0.1uF	10%	25V	
	C804	1-112-839-11	ELECT	4700uF	20%	16V	
	C805	1-116-742-11	CERAMIC CHIP	0.22uF	10%	25V	
	C807	1-118-039-11	CERAMIC CHIP	1uF	10%	25V	
	C809	1-107-907-11	ELECT	22uF	20%	50V	
	C810	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V	
	C811	1-216-864-11	SHORT CHIP	0			
	C812	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V	
	C813	1-216-864-11	SHORT CHIP	0			
	C814	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V	
	C815	1-216-864-11	SHORT CHIP	0			
	C816	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V	
	C817	1-216-864-11	SHORT CHIP	0			
	C818	1-118-040-11	CERAMIC CHIP	2.2uF	10%	16V	
	C819	1-116-743-11	CERAMIC CHIP	0.22uF	10%	16V	
	C820	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	
	C821	1-118-039-11	CERAMIC CHIP	1uF	10%	25V	
	C824	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	
	C825	1-124-589-11	ELECT	47uF	20%	16V	
	C826	1-118-459-11	CERAMIC CHIP	0.01uF	10%	25V	
	C827	1-137-765-21	ELECT CHIP	47uF	20%	16V	
	C828	1-118-459-11	CERAMIC CHIP	0.01uF	10%	25V	
	C829	1-125-972-61	ELECT	100uF	20%	16V	
	C830	1-118-345-11	CERAMIC CHIP	0.01uF	10%	25V	
	C831	1-124-589-11	ELECT	47uF	20%	16V	
	C832	1-116-742-11	CERAMIC CHIP	0.22uF	10%	25V	
	C833	1-116-742-11	CERAMIC CHIP	0.22uF	10%	25V	
	C834	1-118-459-11	CERAMIC CHIP	0.01uF	10%	25V	
	C835	1-116-739-11	CERAMIC CHIP	0.47uF	10%	50V	
	C836	1-116-739-11	CERAMIC CHIP	0.47uF	10%	50V	
	C837	1-126-163-11	ELECT	4.7uF	20%	50V	
	C839	1-124-233-11	ELECT	10uF	20%	16V	
	C841	1-116-742-11	CERAMIC CHIP	0.22uF	10%	25V	
	C842	1-124-589-11	ELECT	47uF	20%	16V	
	C843	1-126-934-11	ELECT	220uF	20%	16V	
	C844	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	
	C845	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	
	C846	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	
	C847	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	
	C854	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	
	C856	1-116-739-11	CERAMIC CHIP	0.47uF	10%	50V	
	C857	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	
	C858	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	
	C859	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	
	C860	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	
	C861	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	
	C862	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	
	C863	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	
	C864	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	
	C865	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	
	C866	1-118-345-11	CERAMIC CHIP	0.01uF	10%	25V	

	Ref. No.	Part No.	Description	Remark
	C867	1-116-739-11	CERAMIC CHIP 0.47uF 10% 50V	
	C869	1-162-919-11	CERAMIC CHIP 22PF 5% 50V	
	C876	1-162-919-11	CERAMIC CHIP 22PF 5% 50V	
	C902	1-118-345-11	CERAMIC CHIP 0.01uF 10% 25V	
	C910	1-118-345-11	CERAMIC CHIP 0.01uF 10% 25V	
	C911	1-118-345-11	CERAMIC CHIP 0.01uF 10% 25V	
	C915	1-118-402-11	CERAMIC CHIP 0.0012uF 10% 50V	
	C916	1-118-459-11	CERAMIC CHIP 0.01uF 10% 25V	
	C951	1-118-402-11	CERAMIC CHIP 0.0012uF 10% 50V	
	C953	1-162-919-11	CERAMIC CHIP 22PF 5% 50V	
			< TUNER UNIT/CONNECTOR >	
	CN01	A-1878-198-A	TUX-DSP02 (TUNER UNIT)	
	CN101	(Not supplied)	CONNECTOR, FFC/FPC (ZIF) 60P (See Note 1)	
*	CN202	1-564-707-11	PIN, CONNECTOR (SMALL TYPE) 5P	
	CN301	1-843-283-11	HEADER ASSEMBLY FOR PWB 20P	
	CN501	1-785-900-11	CONNECTOR 5P	
	CN701	1-819-476-11	HEADER ASSEMBLY FOR PWB 8P (E (PAL), IND)	
	CN801	1-843-352-11	PIN, CONNECTOR 16P	
	CN803	1-564-704-41	PIN, CONNECTOR (SMALL TYPE) 2P	
	CN901	(Not supplied)	CONNECTOR, FFC/FPC (ZIF) 60P (See Note 1)	
	CN940	1-566-762-11	PIN, CONNECTOR (PC BOARD) 7P (E (PAL), IND)	
*	CN941	1-566-765-11	PIN, CONNECTOR (PC BOARD) 10P (US, CND)	
			< DIODE >	
	D102	6-503-857-01	DIODE BAW56	
	D202	6-503-618-01	DIODE UDZVTE-176.8B	
	D203	6-502-961-01	DIODE DA2J10100L	
	D204	6-503-759-01	DIODE RB751V40, 115	
	D303	6-500-514-01	DIODE BAV70	
	D304	6-503-618-01	DIODE UDZVTE-176.8B	
	D305	6-503-628-01	DIODE UDZVTE-1718B	
	D307	1-805-043-11	ABSORBER, CHIP SURGE	
	D308	6-503-628-01	DIODE UDZVTE-1718B	
	D310	1-805-043-11	ABSORBER, CHIP SURGE	
	D351	6-502-961-01	DIODE DA2J10100L	
	D401	6-503-943-01	DIODE DB2440200L	
	D402	6-503-857-01	DIODE BAW56	
	D431	6-503-943-01	DIODE DB2440200L	
	D461	6-503-364-01	DIODE DB2S31400L	
	D462	6-500-864-01	DIODE RB050LA-40TR	
	D501	6-502-961-01	DIODE DA2J10100L	
	D505	6-500-514-01	DIODE BAV70	
	D506	6-502-961-01	DIODE DA2J10100L	
	D701	8-719-016-73	DIODE STZ6.8T	
	D702	8-719-016-73	DIODE STZ6.8T	
	D703	8-719-016-73	DIODE STZ6.8T	
	D704	8-719-016-73	DIODE STZ6.8T	
	D802	6-503-628-01	DIODE UDZVTE-1718B	
	D803	6-503-032-01	DIODE DZ2J180M0L	
	D804	6-502-961-01	DIODE DA2J10100L	
	D805	6-503-017-01	DIODE DZ2J075M0L	
	D806	6-503-032-01	DIODE DZ2J180M0L	
	D808	6-503-032-01	DIODE DZ2J180M0L	
	D809	6-503-238-01	DIODE GN1G (AEP, UK)	
	D824	6-503-677-01	DIODE 1A4C-A2	
	D825	6-502-961-01	DIODE DA2J10100L	
	D826	6-502-961-01	DIODE DA2J10100L	
	D827	6-503-032-01	DIODE DZ2J180M0L	
	D829	6-503-032-01	DIODE DZ2J180M0L	

Note 1: CN101 and CN901 on the MAIN board cannot exchange with single. When these parts are damaged, exchange the complete mounted board.

Ref. No.	Part No.	Description	Remark
D830	6-503-677-01	DIODE 1A4C-A2	
D831	6-503-238-01	DIODE GN1G	
		< FERRITE BEAD >	
FB14	1-400-334-21	FERRITE, EMI (SMD) (1608)	
FB15	1-400-334-21	FERRITE, EMI (SMD) (1608)	
FB16	1-400-334-21	FERRITE, EMI (SMD) (1608) (US, CND)	
FB201	1-469-876-11	INDUCTOR, FERRITE BEAD	
FB202	1-469-876-11	INDUCTOR, FERRITE BEAD	
FB302	1-469-667-21	FERRITE, EMI (SMD) (1608)	
FB303	1-414-385-21	INDUCTOR, FERRITE BEAD	
FB307	1-500-238-11	BEAD, FERRITE (CHIP) (1608)	
FB308	1-500-238-11	BEAD, FERRITE (CHIP) (1608)	
FB309	1-500-238-11	BEAD, FERRITE (CHIP) (1608)	
FB310	1-500-238-11	BEAD, FERRITE (CHIP) (1608)	
FB311	1-500-238-11	BEAD, FERRITE (CHIP) (1608)	
FB312	1-400-334-21	FERRITE, EMI (SMD) (1608)	
FB331	1-414-385-21	INDUCTOR, FERRITE BEAD	
FB332	1-414-385-21	INDUCTOR, FERRITE BEAD	
FB401	1-500-284-21	INDUCTOR, FERRITE BEAD	
FB701	1-414-385-21	INDUCTOR, FERRITE BEAD	
FB702	1-414-385-21	INDUCTOR, FERRITE BEAD	
FB703	1-414-385-21	INDUCTOR, FERRITE BEAD	
FB704	1-414-385-21	INDUCTOR, FERRITE BEAD	
FB901	1-400-050-11	INDUCTOR, FERRITE BEAD	
		< IC >	
IC101	6-717-441-01	IC BD00GA5WEFJ-E2	
IC102	6-704-337-01	IC BD7931F	
IC103	6-716-462-01	IC BD00GA3WEFJ-E2	
IC104	6-709-213-01	IC NJM2387ADL3 (TE2)	
IC105	6-716-739-01	IC BD00GC0WEFJ-SE2	
IC201	6-718-416-01	IC uPD720114GA-YEU-A-SAK	
IC202	6-721-032-01	IC GL888E-BWGT/R	
IC301	6-714-623-01	IC BD3467FV-E2	
IC302	6-718-435-01	IC NJW1240V (TE2)	
IC351	6-720-956-01	IC BA4558FV-GE2	
IC401	6-720-842-01	IC OZ529IEGN-A1-0-TR	
IC431	6-720-842-01	IC OZ529IEGN-A1-0-TR	
IC461	6-718-439-01	IC SI-8205NHG-TL	
IC501	6-719-288-01	IC PST8628UL	
IC502	6-721-159-01	IC R5F3650KCDZ92FB (for SERVICE) (See Note 2)	
IC503	6-716-993-01	IC MM1836A33NRE	
IC504	6-714-393-01	IC R1EX24016ATAS0A (EXCEPT US, CND)	
IC504	6-720-919-01	IC BR24G512FVT-3AGE2 (US, CND)	
IC505	6-706-487-01	IC TC7SH08FU	
IC702	8-759-353-00	IC NJM2534M (TE2)	
IC703	6-716-678-01	IC NJM41050V (TE2)	
IC801	6-715-848-21	IC TDF8556AJ/N5	
		< JACK >	
J1	1-843-172-11	JACK (ANT) (ANTENNA IN)	
J301	1-566-822-91	JACK (MIC)	
J302	1-566-822-81	JACK (REMOTE IN)	
J702	1-843-262-11	JACK, PIN 6P (AUX1/AUX2 IN, REAR OUT, CAMERA, ZxZ)	
		< COIL/JUMPER RESISTOR >	
L11	1-400-073-21	INDUCTOR 4.7uH	

Note 2: When IC502 on the MAIN board is replaced, the destination setting is necessary. Refer to "NOTE THE MAIN BOARD OR SYSTEM CONTROLLER (IC502) REPLACING" on page 5.

MAIN

Ref. No.	Part No.	Description				Remark
L101	1-481-182-21	INDUCTOR	22uH			
L203	1-457-223-11	COMMON MODE CHOKE COIL				
L213	1-218-990-81	SHORT CHIP	0			
L214	1-218-990-81	SHORT CHIP	0			
L217	1-414-842-21	INDUCTOR	15nH			
L218	1-414-842-21	INDUCTOR	15nH			
L401	1-481-904-11	CHOKE COIL	47uH			
L402	1-482-169-11	CHOKE COIL	22uH			
L431	1-482-169-11	CHOKE COIL	22uH			
L461	1-457-714-11	CHOKE COIL	4.7uH			
L462	1-481-983-21	CHOKE COIL	22uH			
L550	1-400-792-21	INDUCTOR	22uH			
L704	1-400-675-11	INDUCTOR	10uH			
L705	1-400-675-11	INDUCTOR	10uH			
L801	1-456-617-11	COIL, CHOKE				
* L941	1-481-103-21	INDUCTOR	4.7uH (US, CND, E (PAL), IND)			
		< TRANSISTOR >				
Q301	6-551-970-01	TRANSISTOR	LTC614TUFP8T106			
Q302	6-551-970-01	TRANSISTOR	LTC614TUFP8T106			
* Q305	6-552-938-01	TRANSISTOR	LTC014YUBFS8TL			
Q309	6-551-970-01	TRANSISTOR	LTC614TUFP8T106			
Q310	6-551-970-01	TRANSISTOR	LTC614TUFP8T106			
Q311	6-551-970-01	TRANSISTOR	LTC614TUFP8T106			
Q312	6-551-970-01	TRANSISTOR	LTC614TUFP8T106			
* Q351	6-552-938-01	TRANSISTOR	LTC014YUBFS8TL			
Q352	6-552-922-01	TRANSISTOR	LTA014EUBFS8TL			
Q502	6-552-922-01	TRANSISTOR	LTA014EUBFS8TL			
Q802	8-729-200-72	TRANSISTOR	2SC2712L-TE85L			
Q803	8-729-200-72	TRANSISTOR	2SC2712L-TE85L			
Q804	6-552-922-01	TRANSISTOR	LTA014EUBFS8TL			
* Q805	6-552-938-01	TRANSISTOR	LTC014YUBFS8TL			
Q806	8-729-200-72	TRANSISTOR	2SC2712L-TE85L			
Q807	6-552-949-01	TRANSISTOR	LTC044EUBFS8TL			
Q808	6-552-936-01	TRANSISTOR	LTC014EUBFS8TL			
Q852	6-552-892-01	TRANSISTOR	LSCR523UBFS8TL			
		< RESISTOR/COIL >				
R12	1-216-864-11	SHORT CHIP	0			
R13	1-216-864-11	SHORT CHIP	0			
R14	1-216-864-11	SHORT CHIP	0 (EXCEPT US, CND)			
R21	1-216-789-11	METAL CHIP	2.2	5%	1/10W	
R22	1-216-789-11	METAL CHIP	2.2	5%	1/10W	
R23	1-216-864-11	SHORT CHIP	0			
R103	1-216-295-91	SHORT CHIP	0			
R106	1-216-864-11	SHORT CHIP	0			
R110	1-216-295-91	SHORT CHIP	0			
R111	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	
R112	1-216-834-11	METAL CHIP	12K	5%	1/10W	
R113	1-216-295-91	SHORT CHIP	0			
R119	1-216-864-11	SHORT CHIP	0			
R121	1-218-887-11	METAL CHIP	47K	0.5%	1/10W	
R122	1-218-883-11	METAL CHIP	33K	0.5%	1/10W	
R123	1-218-875-11	METAL CHIP	15K	0.5%	1/10W	
R130	1-216-864-11	SHORT CHIP	0			
R144	1-218-875-11	METAL CHIP	15K	0.5%	1/10W	
R145	1-218-851-11	METAL CHIP	1.5K	0.5%	1/10W	
R146	1-218-873-11	METAL CHIP	12K	0.5%	1/10W	
R151	1-218-875-11	METAL CHIP	15K	0.5%	1/10W	
R152	1-218-887-11	METAL CHIP	47K	0.5%	1/10W	

Ref. No.	Part No.	Description				Remark
R209	1-216-864-11	SHORT CHIP	0			
R210	1-216-864-11	SHORT CHIP	0			
R211	1-216-864-11	SHORT CHIP	0			
R212	1-216-864-11	SHORT CHIP	0			
R213	1-218-965-11	METAL CHIP	10K	5%	1/16W	
R220	1-246-184-81	METAL CHIP	2.43K	0.5%	1/16W	
R223	1-218-965-11	METAL CHIP	10K	5%	1/16W	
R225	1-216-864-11	SHORT CHIP	0			
R226	1-481-328-21	INDUCTOR (SMD)		27nH		
R227	1-481-328-21	INDUCTOR (SMD)		27nH		
R228	1-216-864-11	SHORT CHIP	0			
R230	1-216-864-11	SHORT CHIP	0			
R300	1-481-746-11	SDM EMI FERRITE				
R301	1-469-667-21	FERRITE, EMI (SMD) (1608)				
R302	1-469-667-21	FERRITE, EMI (SMD) (1608)				
R303	1-469-667-21	FERRITE, EMI (SMD) (1608)				
R304	1-469-667-21	FERRITE, EMI (SMD) (1608)				
R307	1-218-965-11	METAL CHIP	10K	5%	1/16W	
R309	1-216-295-91	SHORT CHIP	0			
R311	1-216-809-11	METAL CHIP	100	5%	1/10W	
R312	1-216-813-11	METAL CHIP	220	5%	1/10W	
R313	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R314	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R315	1-216-809-11	METAL CHIP	100	5%	1/10W	
R316	1-469-667-21	FERRITE, EMI (SMD) (1608)				
R317	1-469-667-21	FERRITE, EMI (SMD) (1608)				
R318	1-216-813-11	METAL CHIP	220	5%	1/10W	
R319	1-216-821-11	METAL CHIP	1K	5%	1/10W	(E (PAL), IND)
R320	1-216-809-11	METAL CHIP	100	5%	1/10W	
R321	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R322	1-216-821-11	METAL CHIP	1K	5%	1/10W	(E (PAL), IND)
R324	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	(E (PAL), IND)
R325	1-216-833-11	METAL CHIP	10K	5%	1/10W	(E (PAL), IND)
R326	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R327	1-216-813-11	METAL CHIP	220	5%	1/10W	
R328	1-216-813-11	METAL CHIP	220	5%	1/10W	
R329	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R330	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R331	1-469-667-21	FERRITE, EMI (SMD) (1608)				
R332	1-216-834-11	METAL CHIP	12K	5%	1/10W	
R333	1-216-834-11	METAL CHIP	12K	5%	1/10W	
R334	1-216-817-11	METAL CHIP	470	5%	1/10W	
R335	1-216-817-11	METAL CHIP	470	5%	1/10W	
R336	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R338	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R339	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R340	1-216-864-11	SHORT CHIP	0			
R341	1-216-797-11	METAL CHIP	10	5%	1/10W	
R342	1-469-667-21	FERRITE, EMI (SMD) (1608)				
R343	1-469-667-21	FERRITE, EMI (SMD) (1608)				
R344	1-481-746-11	SDM EMI FERRITE				
R345	1-469-667-21	FERRITE, EMI (SMD) (1608)				
R346	1-216-855-11	METAL CHIP	680K	5%	1/10W	
R347	1-469-667-21	FERRITE, EMI (SMD) (1608)				
R349	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R350	1-216-809-11	METAL CHIP	100	5%	1/10W	
R351	1-216-845-11	METAL CHIP	100K	5%	1/10W	

Ref. No.	Part No.	Description			Remark
R352	1-216-809-11	METAL CHIP	100	5%	1/10W
R353	1-216-296-11	SHORT CHIP	0		
R356	1-218-965-11	METAL CHIP	10K	5%	1/16W
R357	1-216-844-11	METAL CHIP	82K	5%	1/10W
R358	1-216-845-11	METAL CHIP	100K	5%	1/10W
R359	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R364	1-218-965-11	METAL CHIP	10K	5%	1/16W
R366	1-216-845-11	METAL CHIP	100K	5%	1/10W
R367	1-218-965-11	METAL CHIP	10K	5%	1/16W
R368	1-218-965-11	METAL CHIP	10K	5%	1/16W
R369	1-218-965-11	METAL CHIP	10K	5%	1/16W
R370	1-216-845-11	METAL CHIP	100K	5%	1/10W
R371	1-216-801-11	METAL CHIP	22	5%	1/10W
R373	1-469-667-21	FERRITE, EMI (SMD) (1608)			
R374	1-216-813-11	METAL CHIP	220	5%	1/10W
R376	1-218-941-81	METAL CHIP	100	5%	1/16W
R377	1-216-845-11	METAL CHIP	100K	5%	1/10W
R378	1-216-844-11	METAL CHIP	82K	5%	1/10W
R379	1-216-813-11	METAL CHIP	220	5%	1/10W
R380	1-216-864-11	SHORT CHIP	0		
R384	1-216-809-11	METAL CHIP	100	5%	1/10W
R385	1-216-834-11	METAL CHIP	12K	5%	1/10W
R386	1-216-834-11	METAL CHIP	12K	5%	1/10W
R387	1-216-817-11	METAL CHIP	470	5%	1/10W
R388	1-216-817-11	METAL CHIP	470	5%	1/10W
R393	1-216-845-11	METAL CHIP	100K	5%	1/10W
R394	1-216-845-11	METAL CHIP	100K	5%	1/10W
R402	1-216-818-11	METAL CHIP	560	5%	1/10W
R403	1-216-864-11	SHORT CHIP	0		
R404	1-218-907-11	METAL CHIP	330K	0.5%	1/10W
R405	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R406	1-218-885-11	METAL CHIP	39K	0.5%	1/10W
R407	1-216-809-11	METAL CHIP	100	5%	1/10W
R411	1-216-817-11	METAL CHIP	470	5%	1/10W
R412	1-218-893-11	METAL CHIP	82K	0.5%	1/10W
R413	1-218-889-11	METAL CHIP	56K	0.5%	1/10W
R415	1-218-877-11	METAL CHIP	18K	0.5%	1/10W
R418	1-218-893-11	METAL CHIP	82K	0.5%	1/10W
R421	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R422	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R433	1-216-818-11	METAL CHIP	560	5%	1/10W
R435	1-218-907-11	METAL CHIP	330K	0.5%	1/10W
R436	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R437	1-218-885-11	METAL CHIP	39K	0.5%	1/10W
R438	1-216-809-11	METAL CHIP	100	5%	1/10W
R441	1-216-817-11	METAL CHIP	470	5%	1/10W
R442	1-216-817-11	METAL CHIP	470	5%	1/10W
R444	1-218-889-11	METAL CHIP	56K	0.5%	1/10W
R446	1-218-879-11	METAL CHIP	22K	0.5%	1/10W
R449	1-250-650-11	METAL CHIP	27K	1%	1/10W
R461	1-216-809-11	METAL CHIP	100	5%	1/10W
R462	1-216-805-11	METAL CHIP	47	5%	1/10W
R463	1-218-965-11	METAL CHIP	10K	5%	1/16W
R464	1-218-873-11	METAL CHIP	12K	0.5%	1/10W
R465	1-218-847-11	METAL CHIP	1K	0.5%	1/10W
R466	1-218-847-11	METAL CHIP	1K	0.5%	1/10W
R467	1-218-953-11	METAL CHIP	1K	5%	1/16W
R468	1-218-953-11	METAL CHIP	1K	5%	1/16W
R501	1-216-845-11	METAL CHIP	100K	5%	1/10W
R502	1-218-953-11	METAL CHIP	1K	5%	1/16W

Ref. No.	Part No.	Description			Remark
R506	1-218-965-11	METAL CHIP	10K	5%	1/16W
R507	1-216-845-11	METAL CHIP	100K	5%	1/10W
R510	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R511	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R515	1-218-941-81	METAL CHIP	100	5%	1/16W
R516	1-216-845-11	METAL CHIP	100K	5%	1/10W
R520	1-218-977-11	METAL CHIP	100K	5%	1/16W
R521	1-216-049-11	METAL CHIP	1K	5%	1/10W
R523	1-216-845-11	METAL CHIP	100K	5%	1/10W
R524	1-216-049-11	METAL CHIP	1K	5%	1/10W
R525	1-218-977-11	METAL CHIP	100K	5%	1/16W
R526	1-216-845-11	METAL CHIP	100K	5%	1/10W
R527	1-216-841-11	METAL CHIP	47K	5%	1/10W
R528	1-216-845-11	METAL CHIP	100K	5%	1/10W
				(EXCEPT US, CND)	
R530	1-216-809-11	METAL CHIP	100	5%	1/10W
R531	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R532	1-216-809-11	METAL CHIP	100	5%	1/10W
R533	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R534	1-216-845-11	METAL CHIP	100K	5%	1/10W
R535	1-218-953-11	METAL CHIP	1K	5%	1/16W
R536	1-218-971-11	METAL CHIP	33K	5%	1/16W
R537	1-218-953-11	METAL CHIP	1K	5%	1/16W
R538	1-218-971-11	METAL CHIP	33K	5%	1/16W
R540	1-216-833-11	METAL CHIP	10K	5%	1/10W
R541	1-218-965-11	METAL CHIP	10K	5%	1/16W
R542	1-216-845-11	METAL CHIP	100K	5%	1/10W
R543	1-218-941-81	METAL CHIP	100	5%	1/16W
R544	1-216-864-11	SHORT CHIP	0 (US, CND)		
R545	1-216-809-11	METAL CHIP	100	5%	1/10W
R546	1-216-845-11	METAL CHIP	100K	5%	1/10W
R547	1-218-941-81	METAL CHIP	100	5%	1/16W
R548	1-216-845-11	METAL CHIP	100K	5%	1/10W
R549	1-216-845-11	METAL CHIP	100K	5%	1/10W
R551	1-216-817-11	METAL CHIP	470	5%	1/10W
R552	1-218-941-81	METAL CHIP	100	5%	1/16W
R553	1-216-845-11	METAL CHIP	100K	5%	1/10W
R554	1-216-864-11	SHORT CHIP	0		
R555	1-218-941-81	METAL CHIP	100	5%	1/16W
R556	1-218-977-11	METAL CHIP	100K	5%	1/16W
R557	1-216-809-11	METAL CHIP	100	5%	1/10W
R558	1-216-809-11	METAL CHIP	100	5%	1/10W
R559	1-216-845-11	METAL CHIP	100K	5%	1/10W
R560	1-216-809-11	METAL CHIP	100	5%	1/10W
R561	1-219-570-11	METAL CHIP	10M	5%	1/10W
R563	1-216-845-11	METAL CHIP	100K	5%	1/10W
R564	1-216-845-11	METAL CHIP	100K	5%	1/10W
R565	1-216-809-11	METAL CHIP	100	5%	1/10W
R566	1-216-845-11	METAL CHIP	100K	5%	1/10W
R567	1-216-845-11	METAL CHIP	100K	5%	1/10W
R568	1-216-849-11	METAL CHIP	220K	5%	1/10W
R569	1-216-845-11	METAL CHIP	100K	5%	1/10W
R570	1-216-845-11	METAL CHIP	100K	5%	1/10W
R573	1-216-864-11	SHORT CHIP	0		
R575	1-216-864-11	SHORT CHIP	0		
R576	1-216-833-11	METAL CHIP	10K	5%	1/10W
R577	1-216-097-11	METAL CHIP	100K	5%	1/10W
R578	1-216-864-11	SHORT CHIP	0		
R580	1-216-841-11	METAL CHIP	47K	5%	1/10W
R583	1-216-845-11	METAL CHIP	100K	5%	1/10W

Ref. No.	Part No.	Description				Remark
R584	1-216-864-11	SHORT CHIP	0			
R585	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R587	1-216-809-11	METAL CHIP	100	5%	1/10W	
R701	1-218-975-11	METAL CHIP	68K	5%	1/16W	
R702	1-218-975-11	METAL CHIP	68K	5%	1/16W	
R709	1-211-990-11	METAL CHIP	75	0.5%	1/10W	
R710	1-211-990-11	METAL CHIP	75	0.5%	1/10W	
R711	1-211-990-11	METAL CHIP	75	0.5%	1/10W	
R713	1-211-989-11	METAL CHIP	68	0.5%	1/10W	
R725	1-216-864-11	SHORT CHIP	0			
R733	1-211-990-11	METAL CHIP	75	0.5%	1/10W	
R741	1-216-864-11	SHORT CHIP	0			
R751	1-216-864-11	SHORT CHIP	0 (E (PAL), IND)			
R754	1-216-864-11	SHORT CHIP	0			
R755	1-216-864-11	SHORT CHIP	0 (E (PAL), IND)			
R801	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R804	1-216-073-91	METAL CHIP	10K	5%	1/10W	
R805	1-216-073-91	METAL CHIP	10K	5%	1/10W	
R808	1-216-073-91	METAL CHIP	10K	5%	1/10W	
R809	1-216-073-91	METAL CHIP	10K	5%	1/10W	
R810	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R811	1-481-746-11	SDM EMI FERRITE				
R812	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R813	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R814	1-216-811-11	METAL CHIP	150	5%	1/10W	
R816	1-216-295-91	SHORT CHIP	0			
R817	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R818	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R819	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R820	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R823	1-216-801-11	METAL CHIP	22	5%	1/10W	
R824	1-216-849-11	METAL CHIP	220K	5%	1/10W	
R825	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R826	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R827	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R828	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R829	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R830	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R831	1-481-746-11	SDM EMI FERRITE				
R832	1-481-746-11	SDM EMI FERRITE				
R833	1-481-746-11	SDM EMI FERRITE				
R834	1-481-746-11	SDM EMI FERRITE				
R836	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R837	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R839	1-216-065-91	METAL CHIP	4.7K	5%	1/10W	
R870	1-481-746-11	SDM EMI FERRITE				
R871	1-481-746-11	SDM EMI FERRITE				
R872	1-481-746-11	SDM EMI FERRITE				
R873	1-481-746-11	SDM EMI FERRITE				
R875	1-216-864-11	SHORT CHIP	0			
R877	1-400-392-21	INDUCTOR, FERRITE BEAD (1608)				
R901	1-216-864-11	SHORT CHIP	0			
R917	1-216-864-11	SHORT CHIP	0			
R947	1-216-864-11	SHORT CHIP	0 (E (PAL), IND)			
R949	1-216-295-91	SHORT CHIP	0 (US, CND, E (PAL), IND)			
R950	1-216-295-91	SHORT CHIP	0 (US, CND, E (PAL), IND)			
R963	1-216-821-11	METAL CHIP	1K	5%	1/10W	
		< VARISTOR >				
VDR203	1-805-043-11	ABSORBER, CHIP SURGE				
VDR204	1-805-043-11	ABSORBER, CHIP SURGE				
VDR301	1-804-988-21	VARISTOR, CHIP (1608)				
VDR302	1-804-988-21	VARISTOR, CHIP (1608)				
VDR303	1-804-988-21	VARISTOR, CHIP (1608)				
VDR305	1-804-988-21	VARISTOR, CHIP (1608)				
VDR306	1-804-988-21	VARISTOR, CHIP (1608)				
VDR307	1-804-988-21	VARISTOR, CHIP (1608)				
VDR309	1-804-988-21	VARISTOR, CHIP (1608)				
VDR311	1-804-988-21	VARISTOR, CHIP (1608)				
VDR312	1-804-988-21	VARISTOR, CHIP (1608)				
VDR313	1-804-988-21	VARISTOR, CHIP (1608)				
VDR314	1-804-988-21	VARISTOR, CHIP (1608)				
VDR315	1-804-988-21	VARISTOR, CHIP (1608)				
		< WIRE >				
WR1	1-848-009-11	WIRE, PVC UL1569 AWG18 YEL L53				
		< VIBRATOR >				
X203	1-814-367-11	QUARTZ CRYSTAL UNITS (30 MHz)				
X501	1-795-059-21	VIBRATOR, CERAMIC (6 MHz)				
X502	1-813-202-11	VIBRATOR, CRYSTAL (32.768 kHz)				

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Ref. No.	Part No.	Description				Remark
	A-1871-747-A	M-SUB6 BOARD, COMPLETE				
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		< CAPACITOR >				
C2304	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	
C2305	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	
C2306	1-118-345-11	CERAMIC CHIP	0.01uF	10%	25V	
		< CONNECTOR >				
CN2300	(Not supplied)	CONNECTOR, FFC/FPC (ZIF) 60P (See Note)				
CN2301	1-843-288-11	SOCKET, CONNECTOR 46P				
		< DIODE >				
D2332	6-503-205-01	DIODE RKZ6.8B2KGP1				
		< JUMPER RESISTOR >				
R2301	1-216-864-11	SHORT CHIP	0			
R2320	1-216-864-11	SHORT CHIP	0			
R2321	1-218-990-81	SHORT CHIP	0			
R2322	1-218-990-81	SHORT CHIP	0			
R2323	1-218-990-81	SHORT CHIP	0			
R2324	1-216-864-11	SHORT CHIP	0			
		< SWITCH >				
S2301	1-786-653-21	SWITCH, TACTILE (RESET)				

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Ref. No.	Part No.	Description				Remark
	A-1971-484-A	XM BOARD, COMPLETE (US, CND) (Included in CONNECTOR ASSY (XM1))				
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		< CAPACITOR >				
C651	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	
C652	1-118-403-11	CERAMIC CHIP	0.001uF	10%	50V	
C653	1-118-403-11	CERAMIC CHIP	0.001uF	10%	50V	
C654	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	
C655	1-118-347-11	CERAMIC CHIP	0.1uF	10%	25V	

Note: CN2300 on the M-SUB6 board cannot exchange with single. When this part is damaged, exchange the complete mounted board.

Ref. No.	Part No.	Description				Remark
C656	1-125-972-61	ELECT	100uF	20%	16V	
C657	1-118-417-11	CERAMIC CHIP	0.1uF	10%	16V	
		< CONNECTOR >				
CN651	1-779-886-11	SOCKET, MINIATURE DIN CONNECTOR				(SIRIUSXM IN)
* CN652	1-566-765-11	PIN, CONNECTOR (PC BOARD) 10P				
		< DIODE >				
D651	1-805-043-11	ABSORBER, CHIP SURGE				
D652	1-805-043-11	ABSORBER, CHIP SURGE				
D653	6-503-618-01	DIODE UDZVTE-176.8B				
D654	6-503-618-01	DIODE UDZVTE-176.8B				
D655	6-503-618-01	DIODE UDZVTE-176.8B				
D656	6-503-618-01	DIODE UDZVTE-176.8B				
		< FUSE >				
F601	1-576-415-11	FUSE (2 A/32 V)				
		< IC >				
IC651	8-759-653-98	IC TC7WT126FU (TE12R)				
IC652	6-710-376-01	IC 74LVC1G17GW-125				
		< RESISTOR >				
R651	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R652	1-216-834-11	METAL CHIP	12K	5%	1/10W	
R653	1-216-864-11	SHORT CHIP	0			
R654	1-216-864-11	SHORT CHIP	0			
R655	1-216-834-11	METAL CHIP	12K	5%	1/10W	
R656	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R657	1-218-977-11	METAL CHIP	100K	5%	1/16W	
R658	1-216-864-11	SHORT CHIP	0			
R659	1-216-864-11	SHORT CHIP	0			
R660	1-216-864-11	SHORT CHIP	0			
R661	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R663	1-218-971-11	METAL CHIP	33K	5%	1/16W	
R664	1-218-975-11	METAL CHIP	68K	5%	1/16W	
R670	1-216-864-11	SHORT CHIP	0			
R671	1-216-864-11	SHORT CHIP	0			
R680	1-216-864-11	SHORT CHIP	0			

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MISCELLANEOUS
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Ref. No.	Part No.	Description	Remark
CNC1	1-839-912-11	CORD, CONNECTION (20P) (REVERSE IN/SUB OUT/FRONT AUDIO OUT/REAR AUDIO OUT/ AUX1 AUDIO IN/AUX2 AUDIO IN)	
CNC202	1-846-886-11	CABLE FOR AUTOMOBILE (USB) (USB symbol)	
CWC1	1-846-902-11	CABLE WITH CONNECTOR (NAVI CABLE)	(E (PAL), IND)
CWC2	1-846-359-11	CABLE WITH CONNECTOR (XM CABLE)	(US, CND)
F801	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) (10 A/32 V)	
FFC3	1-848-010-11	CABLE, FLEXIBLE FLAT (20CORE)	
FP1	A-1971-301-A	PANEL COMPLETE ASSY, FRONT (US, CND)	
FP1	A-1971-302-A	PANEL COMPLETE ASSY, FRONT (AEP, UK)	
FP1	A-1971-303-A	PANEL COMPLETE ASSY, FRONT (E (PAL), IND)	
FP1	A-1971-304-A	PANEL COMPLETE ASSY, FRONT (E (NTSC), RU)	
FPB1	1-886-726-11	PRINTED WIRING BOARD, FLEXIBLE	
LCD1	1-811-668-11	DISPLAY PANEL, LIQUID CRYSTAL	
M801	1-787-976-11	FAN, DC (25X25)	
NV1	A-1971-485-A	CONNECTOR ASSY (Including EXT-NAVI board)	(E (PAL), IND)
PW1	1-839-626-11	CONNECTION CORD (ISO) (POWER)	(AEP, RU, UK)
PW1	1-846-998-11	CONNECTION CABLE, AUTOMOBILE (POWER)	(US, CND, E (NTSC), E (PAL), IND)
TPN1	1-458-489-11	TOUCH PANEL	
XM1	A-1971-484-A	CONNECTOR ASSY (Including XM board)	(US, CND)

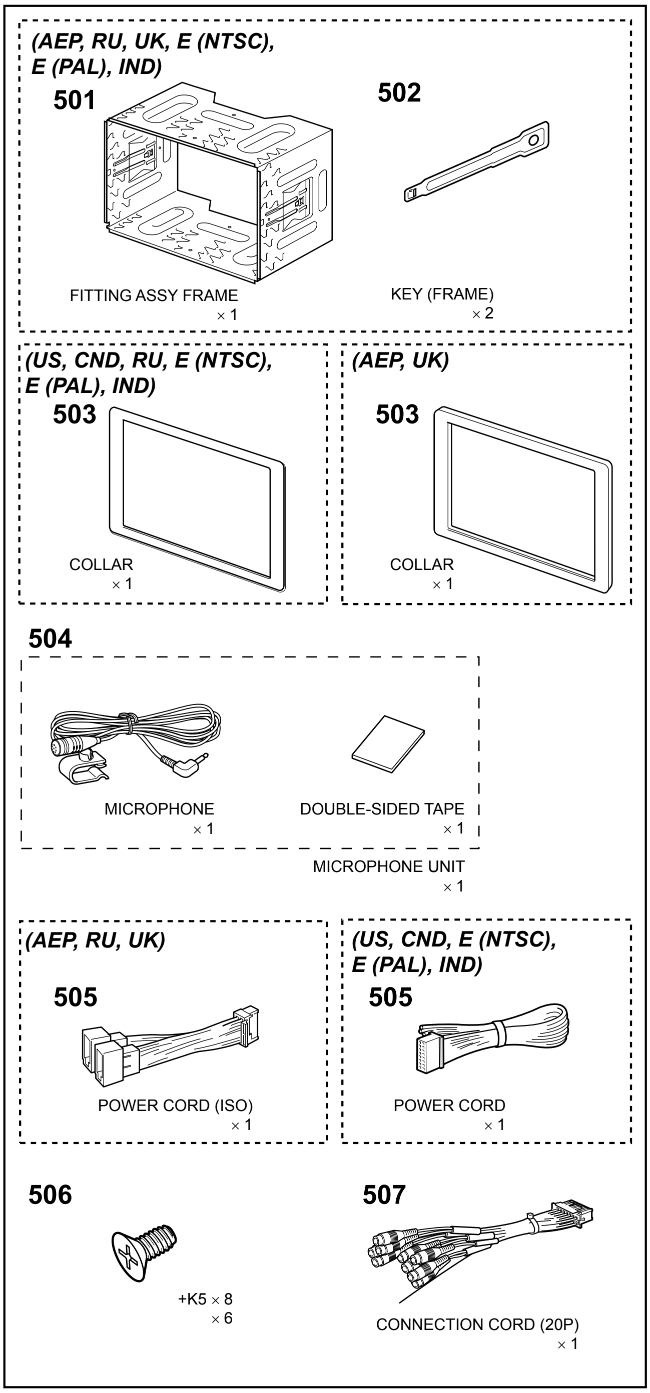
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ACCESSORIES
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Part No.	Description	Remark
1-490-180-11	REMOTE COMMANDER (RM-X271)	
4-465-856-01	CASE, CARRYING (Panel Case)	(for FRONT PANEL)
4-476-910-11	MANUAL, INSTRUCTION	(ENGLISH, FRENCH, SPANISH) (US, CND)
4-476-910-22	MANUAL, INSTRUCTION	(ENGLISH, SPANISH, ITALIAN) (AEP, UK)
4-476-910-32	MANUAL, INSTRUCTION	(GERMAN, FRENCH, DUTCH) (AEP, UK)
4-476-910-43	MANUAL, INSTRUCTION (RUSSIAN, UKRAINIAN)	(RU)
4-476-910-51	MANUAL, INSTRUCTION (ENGLISH)	(E (PAL), IND)
4-476-910-61	MANUAL, INSTRUCTION (ENGLISH, SPANISH)	(E (NTSC))
4-476-911-12	MANUAL, INSTRUCTION, INSTALL	(ENGLISH, FRENCH, SPANISH) (US, CND)
4-476-911-21	MANUAL, INSTRUCTION, INSTALL	(ENGLISH, SPANISH, ITALIAN) (AEP, UK)
4-476-911-31	MANUAL, INSTRUCTION, INSTALL	(GERMAN, FRENCH, DUTCH) (AEP, UK)
4-476-911-41	MANUAL, INSTRUCTION, INSTALL	(RUSSIAN, UKRAINIAN) (RU)
4-476-911-52	MANUAL, INSTRUCTION, INSTALL (ENGLISH)	(E (PAL), IND)
4-476-911-62	MANUAL, INSTRUCTION, INSTALL	(ENGLISH, SPANISH) (E (NTSC))

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Ref. No.	Part No.	Description	Remark
		PARTS FOR INSTALLATION AND CONNECTIONS *************************************	
501	X-2514-519-3	FRAME, FITTING ASSY (AEP, RU, UK, E (NTSC), E (PAL), IND)	
502	3-876-675-01	KEY (FRAME) (1 piece) (AEP, RU, UK, E (NTSC), E (PAL), IND)	
503	4-148-662-11	COLLAR (US, CND, RU, E (NTSC), E (PAL), IND)	
503	4-413-144-01	COLLAR (AEP, UK)	
504	1-542-986-11	MICROPHONE UNIT (Microphone) (Including DOUBLE-SIDED TAPE)	
505	1-839-626-11	CONNECTION CORD (ISO) (POWER) (AEP, RU, UK)	
505	1-846-998-11	CONNECTION CABLE, AUTOMOBILE (POWER) (US, CND, E (NTSC), E (PAL), IND)	
506	3-934-325-21	SCREW, +K (5X8) TAPPING (1 piece)	
507	1-839-912-11	CORD, CONNECTION (20P) (REVERSE IN/SUB OUT/FRONT AUDIO OUT/REAR AUDIO OUT/ AUX1 AUDIO IN/AUX2 AUDIO IN)	



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REVISION HISTORY

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Also, clicking the version at the top of the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision
1.0	2013.09	New